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JAMECO®
ELECTRONICS

Catalog 281
February 2008

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EXCLUSIVELY AT JAMECO:

THE CHOICE OF BOTH

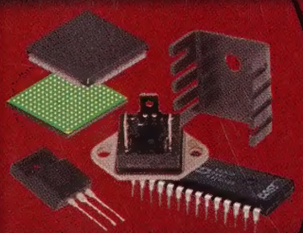


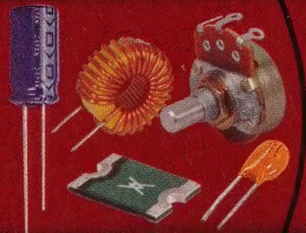
SAVINGS
THRU GENERIC BRANDS

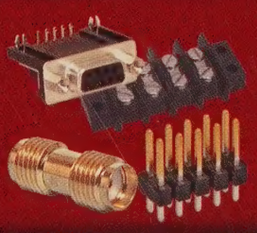
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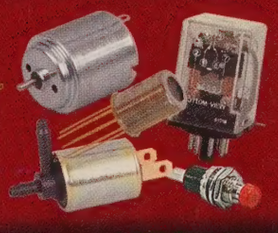
SECURITY
WITH MAJOR NAME BRANDS

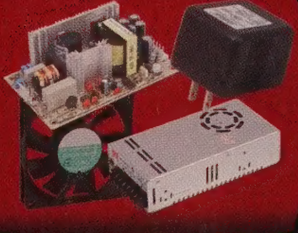
Semiconductors | Passives | Interconnects | Electromechanical | Power











Exclusively at Jameco: A Real Choice!

Savings & Security



We know you need the right product selection, the right prices and the right support. So before you make your choice, please take a couple of moments to understand why Jameco is the only major electronics distributor to provide you a ***real choice****. Jameco offers* ***both*** *comparable-quality* ***generic brands****, typically priced 20-30% below name brands for great savings,* ***and*** *well-established major* ***name-brand*** *products for those companies or individuals that want the added security of buying major brands. All are guaranteed to be at the* ***lowest prices****.*

Savings

First of all, we offer our no-nonsense ***low-price guarantee*** for just one reason. We're dedicated to saving you money on your electronic components purchases!

To help you save even more, we source equivalent products with the same form, fit and function of well-known brands. These comparable-quality money-saving generic brands are offered at substantially reduced prices; typically ***20-30% below*** name brands.

JAMECO ValuePro

JAMECO ReliaPro

Low Price Guarantee?
Name Brand Security?
Generics at 20-30% Less?
Exclusively at Jameco?

YES

With 30+ years of experience, Jameco has developed strong alliances and partnerships with economical, high-quality suppliers. As a result, we offer products with our own name on them! Our exclusive lines of Jameco ***ValuePro™ and ReliaPro™*** products carry our name for just one reason, we stand behind them!

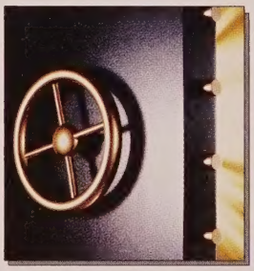
Low Price Guarantee

You've seen it many times. The Lowest Prices, Guaranteed! At Jameco, our price guarantee is simple. If you find a lower print-advertised price for a product we offer, just let us know. We'll offer you that product for 10% less than the price you found, right down to our cost!



No asterisks. No footnotes. Just a simple, straight-forward guarantee. We guarantee it because we take our pricing seriously. We guarantee it because we offer the lowest prices. And we guarantee it because we know how important costs are in the success of many projects. Wouldn't you prefer the protection of the guarantee no other major electronic components distributor offers?

Security



Jameco also offers hundreds of well-established major name-brand manufacturers to provide you added security. So whether you need a Linear Tech® IC or a Bourns® multi-turn potentiometer, you can be sure we supply the products you use most often.

Most of these manufacturers will likely appear on your AVL, so you can rest assured that we're able to meet your corporate buying requirements when the security of a specific brand is required.

Jameco has been offering electronic components since the mid 1970's. And while we're not the oldest distributor, we have developed a unique mix of product sources, allowing us to bring you the quality products you need from sources other distributors only wish they could depend on.

Real Choice — Real Value

So rather than offering multiple choices of a single class of major ***name brands***, all at about the same price, Jameco offers you a real choice unavailable from other distributors. A choice of name-brand products at below-market prices and Jameco ***generic brands*** at even greater savings. A ***real choice***, guaranteed savings and security in every purchase… ***only at Jameco***!



Over 10 Times the Selection at www.Jameco.com

As discussed on the previous page, we are excited to exclusively offer our customers a choice between Jameco ***generic brands*** and major ***name-brand*** manufacturers. Our Product Marketing team constantly refines their product focus to meet your evolving needs.

Our catalog only presents a small sampling of the overall product selection we offer. Quite literally, you'll find over ***10 times the selection on our web site***. For example, we recently added tens of thousands of products in the following categories:

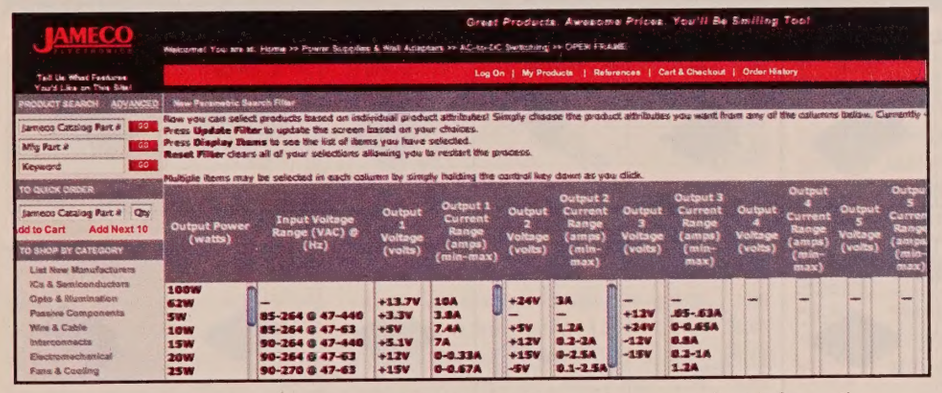
Expanded Product Categories

Amplifiers	Data Conversion	Lighting	RF ICs
Analog/Linear	Diodes	Magnetic	RF Connectors
Board-to-board	Discrete	Memory	Sensors
Connectors	Embedded Processing	Opto	Switches
Capacitors	Fans	Peripheral	Thermal Management
Circuit Protection	Filters	Power	
Communications	Frequency Control	Relays	
SPLD, CPLD, FPGA	Interface	Resistors	

Don't see a manufacturer you need in this catalog? Chances are we have it on our web site at www.Jameco.com. And if you still can't find something, drop a note with specifics to our Product Management team at NewProducts@Jameco.com.

Now — Enhanced Web Performance!

In the last few months, we significantly improved the performance and reliability of our web site. We revamped the internet pipes entering our buildings, upgraded servers and upgraded IBM Websphere middleware to accommodate much greater traffic and improve overall performance. Our new firewall appliances provide greater throughput and external email monitoring now reduces spam traffic by several magnitudes. All this behind-the-scenes stuff translates to a much faster response and greater reliability for you, our customer.



In addition to better performance, we've loaded tons of new product information. You'll find millions of parametric data specs added to our new platform, so you can more easily find the products best suited to your requirements. We've even added more specific part descriptions to help you find the products you're looking for faster. Plus, we're also in the process of greatly expanding the amount of data sheets and app notes you'll find on the site.

And with all this new information, you can expect to see even greater functional improvements to the web site in the weeks and months to come. So be sure to visit our site frequently and take advantage of all the new features!!

More Great Info at www.Jameco.com

- Tens of thousands of free datasheet downloads available
- Cross-references available for hundreds of thousands of products
- Parametric filtering for fast selection of products

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PRICES Prices are effective 1-7-08. Prices and discounts are subject to change without notice.

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Semiconductor Index

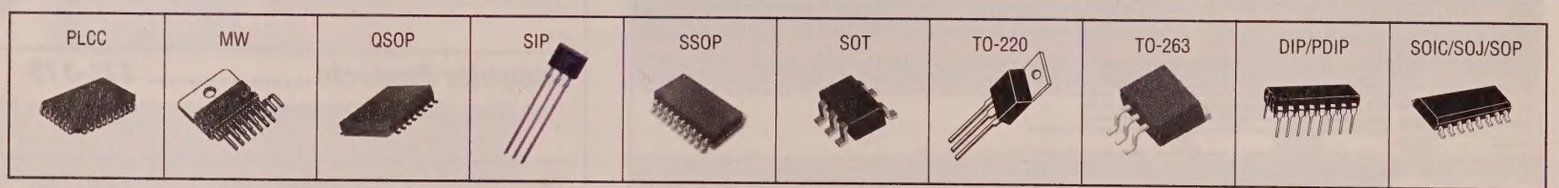
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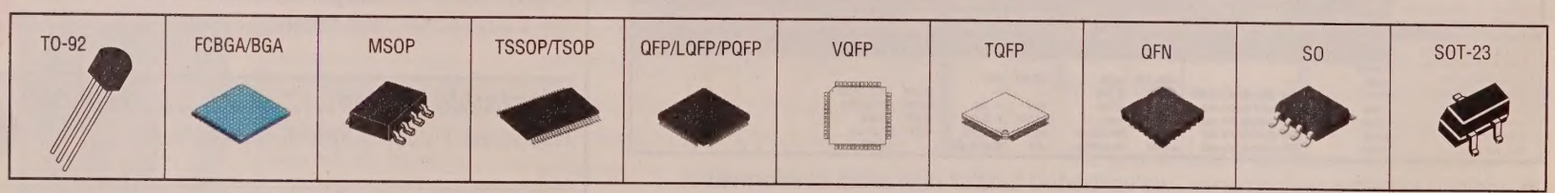
Additional ICs are available online at www.Jameco.com/Semiconductors

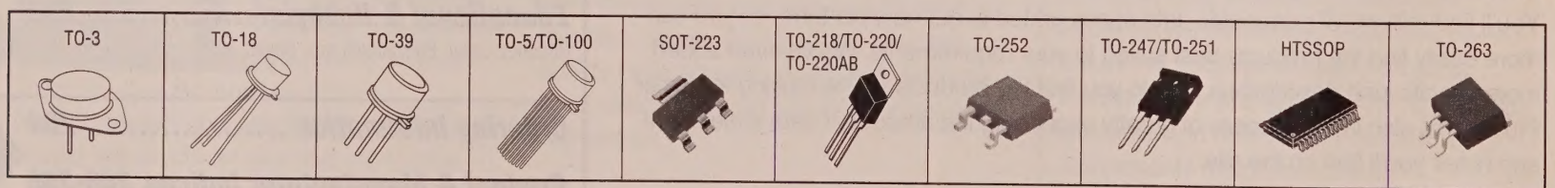
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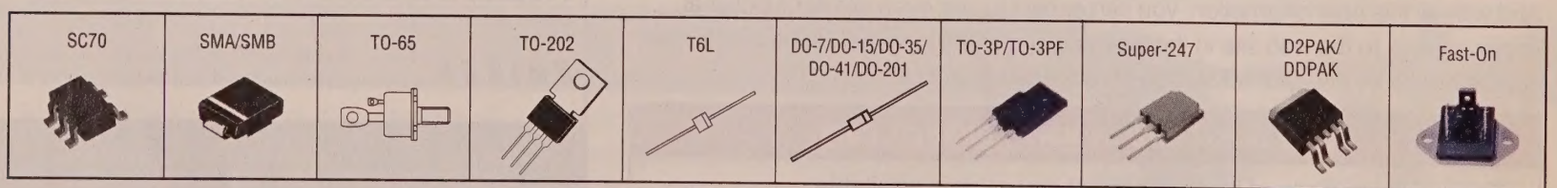
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Please refer to datasheets at www.Jameco.com for more detailed illustrations and specifications

Additional Microcontrollers are available online at www.Jameco.com/Semiconductors

MICROCHIP PIC Microcontrollers

See Inside Back Cover for NEW KAE Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
145111	PIC16F84-04/P	DIP-18	Flash	4	1k	68	13	$6.59	$4.39
145120	PIC16F84-10/P	DIP-18	Flash	10	1k	68	13	7.65	6.49
223790	PIC12F629-I/P	DIP-8	Flash	20	1k	64	6	1.49	1.25
223781	PIC12F675-I/P	DIP-8	Flash	20	1k	64	6	1.69	1.07
312514	PIC12F683-I/P	DIP-8	Flash	20	4k	128	6	2.19	2.05
312531	PIC16F54-I/P	DIP-18	Flash	20	512	25	12	1.79	1.73
193439	PIC16F627-20/P	DIP-18	Flash	20	1k	224	16	3.55	2.32
193447	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	3.49	2.77
246756	PIC16F628-20I/P	DIP-18	Flash	20	2k	224	16	3.25	3.10
223749	PIC16F630-I/P	DIP-14	Flash	20	1k	64	12	1.89	1.42
247142	PIC16F648A-I/P	DIP-18	Flash	20	4k	256	16	3.59	2.81
223757	PIC16F676-I/P	DIP-14	Flash	20	1k	64	12	1.29	1.23
312590	PIC16F684-I/P	DIP-14	Flash	20	2k	128	12	2.45	1.62
312611	PIC16F688-I/P	DIP-14	Flash	20	4k	256	12	2.19	1.95
312670	PIC16F737-I/SP	DIP-28	Flash	20	4k	368	25	6.15	4.63
223765	PIC16F818-I/P	DIP-18	Flash	20	1k	128	16	3.49	2.62
223773	PIC16F819-I/P	DIP-18	Flash	20	2k	256	16	3.85	2.89
193332	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	5.59	4.66
246861	PIC16F84A-20I/P	DIP-18	Flash	20	1k	68	13	6.39	4.79
246895	PIC16F870-I/SP	DIP-28	Flash	20	2k	128	22	4.79	3.59
246941	PIC16F872-I/SP	DIP-28	Flash	20	2k	128	22	4.05	2.86
246975	PIC16F873A-I/SP	DIP-28	Flash	20	4k	192	22	6.29	5.50
246991	PIC16F874A-I/P	DIP-40	Flash	20	4k	192	33	7.39	6.00
193367	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22	5.39	4.96
247011	PIC16F876A-I/SP	DIP-28	Flash	20	8k	368	22	7.35	4.37
176882	PIC16F877-20/P	DIP-40	Flash	20	256	368	33	9.29	8.05
247046	PIC16F877A-I/L	PLCC-44	Flash	20	8k	368	33	8.95	5.55
247038	PIC16F877A-I/P	DIP-40	Flash	20	8k	368	33	7.25	5.29
247097	PIC16F87-I/P	DIP-18	Flash	20	4k	368	16	3.39	3.15
312733	PIC16F88-I/P	DIP-18	Flash	20	7k	368	16	4.15	3.05
248111	PIC18F1320-I/P	DIP-18	Flash	40	4k	256	16	4.89	3.38
312303	PIC18F2525-I/SP	DIP-28	Flash	40	48k	3986	25	9.89	7.98
247994	PIC18F252-I/SP	DIP-28	Flash	40	16k	1536	23	8.79	6.59
248049	PIC18F452-I/L	PLCC-44	Flash	40	16k	1536	34	10.35	9.14
248031	PIC18F452-I/P	DIP-40	Flash	40	16k	1536	34	9.75	7.31
248057	PIC18F458-I/P	DIP-40	Flash	40	16k	1536	34	10.69	6.66
145040	PIC12C508A-04/P	DIP-8	OTP	4	512	25	5	1.49	.99
144258	PIC12C509A-04/P	DIP-8	OTP	4	1k	41	5	1.49	1.09
128338	PIC16C54A-04/P	DIP-18	OTP	4	512	25	12	1.45	1.09
193341	PIC16C57C-04/P	DIP-28	OTP	4	2k	72	20	3.05	1.97
193359	PIC16C711-04/P	DIP-18	OTP	4	1k	68	13	3.25	2.43

ATMEL Microcontrollers NEW

Part No.	Product No.	Pkg.	Description	1	25
1920685	ATMEGA8L-8AU♠	TQFP-32	8-bit AVR® MCU, 8k flash, 32 I/O, 8MHz, I-temp	$4.25	$3.99
847421	ATMEGA8-16PC♠	DIP-28	8-bit AVR® MCU, 8k flash, 23 I/O, 16MHz, C-temp	3.59	3.26
248330	ATMEGA8-16PI	DIP-28	8-bit MCU, 8kB flash, 16MHz, 23 I/O	5.05	4.05
323133	ATMEGA16-16PI	DIP-40	8-bit MCU, 16kB flash, 16MHz, 32 I/O, I-temp	6.49	4.88
847130	ATMEGA16L-8AC♠	TQFP-44	8-bit AVR® MCU, 16k flash, 32 I/O, 8MHz, C-temp	6.95	6.39
847164	ATMEGA16L-8AU♠	TQFP-44	8-bit AVR® MCU, 16k flash, 32 I/O, 8MHz, I-temp	6.39	5.78
1013743	ATMEGA16-16AI♠	TQFP-44	8-bit MCU 16kB flash, 32 I/O, 16MHz, I-temp	7.15	6.79
847041	ATMEGA16-16AU♠	TQFP-44	8-bit AVR® MCU, 16k flash, 32 I/O, 16MHz, I-temp	5.79	5.38
764617	ATMEGA16-16PI	DIP-40	8-bit AVR® MCU, 16k flash, 32 I/O, 16MHz, I-temp	7.59	7.08
847228	ATMEGA32L-8AU♠	TQFP-44	8-bit AVR® MCU, 32k flash, 32 I/O, 8MHz, I-temp	8.09	7.32
1015255	ATMEGA32-16AI♠	TQFP-44	8-bit AVR® MCU, 32k flash, 32 I/O, 16MHz, I-temp	9.45	8.80
847199	ATMEGA32-16AU♠	TQFP-44	8-bit AVR® MCU, 32k flash, 32 I/O, 16MHz, I-temp	8.09	7.32
847332	ATMEGA64L-8AU♠	TQFP-64	8-bit AVR® MCU, 64k flash, 53 I/O, 8MHz, I-temp	11.59	10.58
847287	ATMEGA64-16AU♠	TQFP-64	8-bit AVR® MCU, 64k flash, 53 I/O, 16MHz, I-temp	11.09	10.15
1013621	ATMEGA128L-8AC♠	TQFP-64	8-bit MCU 128kB flash, 53 I/O, 8MHz, C-temp	16.69	15.85
1013663	ATMEGA128L-8AI♠	TQFP-64	8-bit MCU 128kB flash, 53 I/O, 8MHz, I-temp	16.69	15.85
846989	ATMEGA128L-8AU♠	TQFP-64	8-bit AVR® MCU, 128k flash, 53 I/O, 8MHz, I-temp	13.59	12.42
846954	ATMEGA128-16AU♠	TQFP-64	8-bit AVR® MCU, 128k flash, 53 I/O, 16MHz, I-temp	14.89	13.48
764676	ATMEGA162V-8AU♠	TQFP-44	8-bit AVR® MCU, 16k flash, 35 I/O, 8MHz, I-temp	5.95	5.34

ATMEL Microcontrollers (Continued)

Part No.	Product No.	Pkg.	Description	1	25
764633	ATMEGA162-16AU♠	TQFP-44	8-bit AVR® MCU, 16k flash, 35 I/O, 16MHz, I-temp	$5.95	$5.34
764932	ATMEGA8515L-8AU♠	TQFP-44	8-bit AVR® MCU, 8k flash, 35 I/O, 8MHz, I-temp	5.09	4.62
764975	ATMEGA8515L-8JI♠	PLCC-44	8-bit AVR® MCU, 8k flash, 35 I/O,8MHz, I-temp	5.25	5.10
847455	ATMEGA8535L-8AU♠	TQFP-44	8-bit AVR® MCU, 8k flash, 32 I/O, 8MHz, I-temp	5.49	4.99
765038	ATMEGA8535-16PC♠	DIP-40	8-bit AVR® MCU, 8k flash, 32 I/O, 16MHz, C-temp	7.05	6.51
248170	ATTINY12-8PC	DIP-8	8-bit MCU, 1kB flash, 8MHz, 6 I/O	1.85	1.56
847658	ATTINY26L-8SU♠	SOIC-20	8-bit AVR® MCU, 2k flash, 16 I/O, 8MHZ, I-temp	2.35	2.13
765417	ATTINY26-16SC♠	SOIC-20	8-bit AVR® MCU, 2k flash, 16 I/O, 16MHZ, C-temp	2.95	2.70
689039	ATTINY2313V-10PU	DIP-20	8-bit MCU, 2kB flash, 10MHz, 18 I/O, I-temp	2.19	1.75
765409	ATTINY2313V-10SU♠	SOIC-20	8-bit AVR® MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.25	1.78
765370	ATTINY2313-20MU♠	QFN-20	8-bit AVR® MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.19	2.09
1537061	ATTINY2313-20PU	DIP-20	8-bit AVR® MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.25	2.03
847578	ATTINY2313-20SI	SOIC-20	8-bit AVR® MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.09	1.91
847594	ATTINY2313-20SU♠	SOIC-8	8-bit AVR® MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.65	2.45
248217	ATTINY26-16PC	DIP-20	8-bit MCU, 2kB flash, 16MHz, 16 I/O	2.05	1.54
323141	ATMEGA8515-16PC	DIP-40	8-bit MCU, 8kB flash, 16MHz, 35 I/O	4.59	3.44
168874	AT89C2051-24PC	DIP-20	8-bit MCU, 2kB flash, 24MHz, 15 I/O	2.29	1.70
204089	AT89C4051-24PC	DIP-20	8-bit MCU, 4kB flash, 24MHz, 15 I/O	2.15	1.78
168911	AT89C51-24JC	PLCC-44	8-bit MCU, 4kB flash, 24MHz, 32 I/O	4.55	4.07
168903	AT89C51-24PC	DIP-40	8-bit MCU, 4kB flash, 24MHz, 32 I/O	4.95	4.35
168920	AT89C52-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	3.45	2.85
763631	AT89C5131A-RDTIM♠	VQFP-64	8-bit flash MCU w/ full speed USB device, I-temp	★	Call
763681	AT89C51RD2-RLTIM♠	VQFP-44	8-bit flash MCU, four 8-bit I/O ports, I-temp	★	Call
763711	AT89C51SND1C-ROTIL♠+	TQFP-80	Single chip flash MCU, 64k flash, I-temp	★	Call
355830	AT89S51-24PC	DIP-40	8-bit MCU, 4kB flash, 33MHz, 32 I/O	2.09	1.58
763817	AT89S51-24PI♠	DIP-40	8-bit MCU, 4kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
220871	AT89S52-24JI	PLCC-44	8-bit MCU, 8kB flash, 33MHz, 32 I/O, I-temp	1.85	1.39
662637	AT89S52-24PC	DIP-40	8-bit MCU, 8kB programmable flash	2.15	1.62
168946	AT89C55WD-24PC	DIP-40	8-bit MCU, 20kB flash, 24MHz, 32 I/O	6.59	5.75
204097	AT89S8252-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	6.95	6.25
846006	AT89S8253-24AI♠	TQFP-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	★	Call
763868	AT89S8253-24AU♠	TQFP-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	★	Call
846031	AT89S8253-24JI♠	PLCC-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	5.55	5.29
846057	AT89S8253-24JU♠	PLCC-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	4.89	4.43

+ Single chip MCU w/ MP3 decoder and human interface

★ Please call or visit our website for minimum order quantity and pricing

TEXAS INSTRUMENTS Microcontrollers NEW

Part No.	Product No.	Pkg.	Description	1	10	100
699034	MSP430F148IPM♠	QFP-64	48kB + 256B flash, 2kB RAM, I-temp	$10.99	$10.43	$9.91
1355410	MSP430F149IPM♠	QFP-64	60kB + 256B flash, 2kB RAM, I-temp	12.19	11.58	10.42
699051	MSP430F1611IPM♠	QFP-64	48kB + 256B flash, 10kB RAM, I-temp	★	Call	Call
699085	MSP430F449IPZ♠	QFP-80	60kB + 256B flash, 2kB RAM, I-temp	13.45	12.78	12.14

★ Please call or visit our website for minimum order quantity and pricing

ATMEL AT91R MCUs NEW

Part No.	Product No.	Pkg.	Description	1	10
1012935	AT91R400008-66AU♠	TQFP-100	256kb pri. SRAM, 32-bit data bus, 32 prog I/O	$12.65	$11.99
846137	AT91SAM-ICE♠	—	JTAG emulator	286.25	252.49

NXP / PHILIPS MCUs

Part No.	Product No.	Pkg.	Description	1	10
917337	P80C32UFAA♠	PLCC-44	128/256 byte RAM ROMless LV (2.7-5.5V), LP, hi-spd (33MHz), I-temp	$2.25	$2.00
854719	P87C51FA-4A♠	PLCC-64	8-bit, 8k x 8 OTP, LV (2.7-5.5V), LP, hi-speed (16MHz)	7.55	5.66
854882	P87C51RD+4A♠	PLCC-44	8-bit, 64k x 8 OTP, LV (2.7-5.5V), LP, hi-speed (16MHz)	12.75	11.85
855050	P89C660HBBD♠	LQFP-44	8-bit, 16kB ISP/IAP flash, 512B RAM, 20MHz - 33MHz	9.49	8.86
855252	P89V51RD2FA♠	PLCC-44	8-bit, 5V LP, 64kB flash, 1kB RAM, I-temp	6.35	5.98
917687	PCF8583PN	DIP-8	Clock calendar w/ 240 x 8 RAM	3.45	3.14
917716	PCF8583TD	SOIC-8	Clock calendar w/ 240 x 8 RAM	2.19	2.13

intel 8-Bit MCU

Part No.	Product No.	Pkg.	Description	1	10
876096	P80C31BH-1	DIP-40	CHMOS single chip 8-bit microcontroller	$2.39	$1.98

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Microcontrollers & Microprocessors

Color Code Legend: New | Sale | Lower$ | QtySave

Additional Microprocessors are available online at www.Jameco.com/Semiconductors

DALLAS SEMICONDUCTOR 80C MCU Series

Part No.	Product No.	Pkg.	Description	1	10
114403	DS80C320-MCG	DIP-40	High speed LP micro	$12.09	$9.27

Texas Instruments Digital Signal Processors NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1105550	TMS320VC5410APGE16	LQFP-144	Fixed point DSP	$43.89	$41.69	$39.60
700365	TMS320VC5509AGHH♠	BGA-179	Fixed point DSP	38.99	37.62	36.71
1119038	TPS75003RHLT	QFN-20	Tri supply pwr mgmt IC for FPGA&DSP	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

ZILOG Z80 MPUs

Part No.	Product No.	Pkg.	Description	1	10	100
35561	Z80♣	DIP-40	2.5MHz CPU (MK3880N/780C)	$1.95	$1.65	$1.43
35596	Z80A♣	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609	Z80A-CTC♣	DIP-28	4MHz counter timer circuit (MK3882-4)	2.45	2.19	1.97
35625	Z80A-DART♣	DIP-40	4MHz dual asynchronous receiver/trans	3.49	3.19	2.89
35641	Z80A-PIO♣	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	1.99	1.79	1.61
35668	Z80A-SIO/0♣	DIP-40	4MHz serial I/O (TxCB & RxCB bond.) MK3884-4	2.19	1.79	1.59
35705	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39	2.09
280428	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA. UART, INTC	10.05	7.57	5.13
35781	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.99	4.59	3.75
280516	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.85	3.27	2.45
61786	Z85C3008PS	DIP-40	Serial communications controller	5.55	5.17	4.35

♣ Pull = Extra Savings

6500 Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43191	6502♣	DIP-40	CPU, 8-bit, 1MHz	$5.75	$4.89	$4.16
43166	65C02♣	DIP-40	CPU, 8-bit, 1MHz	5.95	4.45	3.10
43254	6522♣	DIP-40	Versatile interface adapter, 1MHz	4.05	3.25	2.95
43297	6532	DIP-40	RAM I/O timer, 1MHz	7.95	6.99	6.49
43318	6551	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.36	2.52

♣ Pull = Extra Savings

freescale semiconductor 6800/68000 CMOS

Part No.	Product No.	Pkg.	Description	1	10	100
961012	MC68332ACEH16	PQFP-132	32-bit CPU, SIM, TPU, QSM, 16MHz	$26.59	$25.90	$23.91
961047	MC68332ACEH20	PQFP-132	32-bit CPU, SIM, TPU, QSM, 20MHz	27.95	25.19	24.33
961071	MC68332ACEH25	PQFP-132	32-bit CPU, SIM, TPU, QSM, 25MHz	29.29	26.37	25.50
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	10.65	8.70	7.86
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	11.39	9.18	8.27
963878	MC68HC16Z1CEH25	PQFP-132	MCU, 16-bit, 8/10-bit ADC, QSM, GPT	21.95	21.30	19.82
248647	MC68HC705C8ACFN	PLCC-44	MCU, 8-bit, 31 I/O, 4MHz	8.35	6.15	5.80
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	9.95	8.95	8.02
132530	MC68HC705J1ACP⊕	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	3.85	2.45	2.07
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	18.99	16.40	15.30
248428	MC68HC908KX8CP	DIP-16	MCU, 8-bit, 13 IO, 8MHz	5.35	4.85	4.65

6800/68000 N-MOS

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43481	6800♣	DIP-40	CPU, 8-bit, 5V, 2MHz	$6.95	$5.25	$3.65
43502	6802	DIP-40	CPU, 8-bit, 5V, 1MHz	9.85	8.87	7.99
43529	6803♣	DIP-40	CPU, 8-bit, 5V, 1MHz	7.79	6.99	6.29
43537	MC6808	DIP-40	CPU, 8-bit, 7V, 1MHz	7.65	6.50	4.88
43545	6809E♣	DIP-40	CPU, 8-bit, 7V, 1MHz	4.39	3.99	3.61
320590	68B09E	DIP-40	CPU, 8-bit, 7V, 2MHz	4.75	4.04	3.03
43561	6810	DIP-24	SRAM, 1K-bit, 5V, 1MHz	3.55	3.18	2.87
43596	6821♣	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.59	3.25
43414	68B21♣	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49	4.05
43617	6840	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.49	2.25	1.99
43633	6850♣	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	4.39	3.88	3.27
25304	MC68000L8♣	DIP-64	CPU, 16-bit, 7V, 8MHz	10.05	8.90	8.12
25291	MC68000L10♣	DIP-64	CPU, 16-bit, 7V, 10MHz	13.45	11.49	9.55
25363	MC68705P3S	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95	20.65
25371	MC68705U3S✣	DIP-40	MCU, 8-bit, 20 I/O, 4MHz	26.95	22.94	20.65

♣ Pull = Extra Savings ✣ Refurbished = Backed by Jameco

8000 N-MOS

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844	8031♣	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	$3.45	$3.15	$2.80
102197	8032	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.59	3.25
51861	8035♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.59	3.25
51959	8039♣	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	4.49	3.82	2.86
51983	8049♣*	DIP-40	CPU, 8-bit, 27 I/O, 6MH	3.09	2.74	2.49
51991	8051AP♣**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	5.49	4.99	4.49
52046	8080A♣	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	5.25	4.62	4.20
52062	8085AH♣	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	5.69	5.12	4.55
52071	8085AH-2♣	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.49	4.99	4.49
52100	8086-2♣	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75	1.59
52142	8088♣	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.49	2.25	1.99
52169	8088-2♣	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	5.95	5.39	4.85
34358	UPD70108-8♣	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	10.99	9.34	7.01
52290	8155	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.82	2.87
52302	8155-2♣	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	5.95	5.39	4.85
52468	8212♣	DIP-24	I/O port timer, 8-bit, 3MHz	6.49	5.99	5.49
52492	8224	DIP-16	Clock generator/driver	2.95	2.49	2.25
52513	8228	DIP-28	System contr./bus driver	3.69	3.19	2.36
52581	8243♣	DIP-24	I/O expander	5.49	4.94	3.71
52644	8251✣	DIP-28	USART	2.99	2.69	2.39
52652	8251A♣	DIP-28	USART	4.09	3.80	3.49
52679	8253♣	DIP-24	Prog. interval timer, 2MHz	3.19	2.89	2.59
52687	8253-5✣	DIP-24	Prog. interval timer, 2MHz	4.99	4.49	3.99
52708	8254♣	DIP-24	Prog. interval timer, 8MHz	4.79	4.27	3.84
52716	8254-2♣	DIP-24	Prog. interval timer, 8MHz	9.19	7.81	5.86
52724	8255♣	DIP-40	CPU peripheral, 2MHz	4.49	3.99	3.49
52732	8255A-5♣	DIP-40	CPU peripheral, 5MHz	4.89	4.39	3.05
291805	8255AC-5✣	DIP-40	CPU peripheral, 4MHz	5.59	5.05	3.79
52759	8256♣	DIP-40	UART	19.99	17.99	16.19
52775	8259♣	DIP-28	Prog. interrupt controller	1.75	1.55	1.45
52783	8259-5♣	DIP-28	Prog. interrupt controller	2.49	2.19	1.99
52839	8279♣	DIP-40	CPU peripheral, 5MHz	12.99	11.99	10.99
52847	8279-5♣	DIP-40	CPU peripheral, 5MHz	12.95	11.69	10.49
52855	8282♣	DIP-20	Octal latch bus driver	5.69	4.84	3.63
52871	8284A♣	DIP-18	Clock generator/driver, 8MHz	4.69	4.19	3.77
52898	8286	DIP-20	Octal bus transceiver	4.09	3.73	3.38
52901	8287	DIP-20	Octal bus transceiver	10.19	9.26	6.95
53014	8742	DIP-40	MCU, 8-bit, 18 I/O, 12MHz	13.99	11.93	10.51
53022	8748✣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	15.89	14.32	12.66
53031	8748H✣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	17.69	16.11	14.44
53057	8749H✣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	24.39	20.67	16.92
53081	8751H✣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	21.25	18.06	15.35

* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

** Tie pin 31 low to bypass the internal ROM ♣ Pull = Extra Savings ✣ Refurbished = Backed by Jameco

8000 CMOS

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51676	80C31♣	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	$2.99	$2.42	$1.45
108804	80C32-1♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	4.49	3.85	2.89
51692	80C39♣	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	3.59	3.23	2.91
125647	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	32.75	29.47	26.51
51705	80C85A-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	7.25	6.54	4.91
52193	81C55♣	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.59	3.19
52370	82C51A♣	DIP-28	USART	3.95	3.50	3.04
52388	82C53-5	DIP-24	Prog. interval timer, 8MHz	3.65	3.10	2.64
52396	82C54	DIP-24	Prog. interval timer, 8MHz	5.05	3.39	2.61
52409	82C54-2	DIP-24	Prog. interval timer, 10MHz	4.49	4.05	3.59
52417	82C55A	DIP-40	CPU peripheral, 5MHz	4.99	4.49	3.99
52425	82C55A-5	DIP-40	CPU peripheral, 5MHz	4.59	4.07	3.56
52978	87C51✣	DIP-40	MCU, 8-bit, 32 I/O, 33MHz	21.99	18.69	17.49
196120	P87C51	DIP-40	MCU, 8-bit, 24 I/O, 24MHz	5.09	4.62	4.20

♣ Pull = Extra Savings ✣ Refurbished = Backed by Jameco

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Ethernet, Basic Stamp Controllers & EPROMs

Additional ICs are available online at www.Jameco.com/Semiconductors

intel Ethernet Controllers

Part No.	Product No.	Pkg.	Description	1	5
875923	FW82546EB♠	BGA-364	Dual port Gigabit ethernet controller	$158.89	$151.21
875940	FW82546GB♠	BGA-364	Dual port Gigabit ethernet controller	163.39	155.56
876002	GD82559ER♠	BGA-196	Fast ethernet PCI controller	22.99	21.89
789241	GDLXT9785MBC.D0♠	BGA-196	8-port ethernet transceiver	26.19	24.95
789259	HL82571EB♠	FCBGA-256	PRO/1000 Gigabit ethernet controller	145.29	138.03
876061	NH82546GB♠	BGA-364	Dual port ethernet controller	155.59	147.81
789451	RC82540EM♠	TFBGA-196	Gigabit ethernet controller	43.65	41.47
876230	SLXT970AQC♠	QFP-64	10/100 BaseT ethernet trans.	15.59	14.81
876299	WJLXT971ALE.A4♻♠	LQFP-64	100 BaseTX ethernet transceiver	10.05	9.55
876301	WJLXT972MLC.A4♠	LQFP-64	3.3V ethernet transceiver	5.95	5.65
875886	FW21154AE♠	BGA-304	PCI-PCI bridge, 64-bit, 33MHz	63.99	60.79
875907	FW21154BE♠	BGA-304	PCI-PCI bridge, 64-bit, 66MHz	68.65	65.22
875860	DA82562ET♠	SSOP-48	10/100 Mbps platform LAN connect	9.89	9.39

National Semiconductor Ethernet Physical Layer NEW

Part No.	Product No.	Pkg.	Description	1	10
1266290	DP83848IVV/NOPB♻♠	LQFP-48	Single port 10/100Mbps trans., I-temp	$6.09	$4.65
1921661	DP83848CVV/NOPB♠	LQFP-48	Single port 10/100Mbps trans., C-temp	4.85	4.57

SPANSION Networking/Ethernet NEW

Part No.	Product No.	Pkg.	Description	1	10
1920415	AM79C874VC♠	PQFP-80	NetPHY™ -1 LP 10/100 TX/FX ethernet trans., C-temp	$9.99	$9.48
1920423	AM79C874VI♠	PQFP-80	NetPHY™ -1 LP 10/100 TX/FX ethernet trans., I-temp	9.99	9.48
1920431	AM79C973BKCW♠	PQFP-160	PCnet™ -FAST III 10/100 ethernet controller	23.65	22.45
1920440	AM79C973BVCW♠	TQFP-176	PCnet™ -FAST III 10/100 ethernet controller	24.85	23.60

ISD Voice Chips

Single-Chip Voice Record/Playback Devices



107334

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC) and clock source
- Typical 100k record cycles, 1µA standby current and 100 year message retention
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 28-pin DIP

Part No.	Product No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	$5.95	$5.35	$4.85
107334	ISD1420P	Voice record/playback (20 sec.)	9.95	8.95	7.95
120643	ISD2560P	Voice record/playback (60 sec.)	11.95	10.95	9.95
141655	ISD25120P	Voice record/playback (120 sec.)	12.95	11.65	10.49

MICROMINT 80C52-Basic Microcontroller

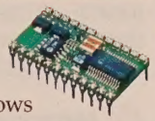
A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip • Operates DC to 12MHz
- "Stand-alone" software development • On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	$32.75	$29.47	$26.51

PARALLAX BASIC Stamp

See page 170 for Serial LCD Modules



They are ideal for controller apps including robotics, radio-controlled interfaces of a digital camera, industrial pallet stackers, health monitoring systems, and much more. The BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. It allows you to store data in the EEPROM before downloading a BASIC program.

- EEPROM: 2048 bytes • Current draw @ 5V: 8mA run/100µA
- Microcontroller: PIC16C57 • Program speed: 4000/sec. • Volts required: 5-15VDC
- # of I/O pins: 16 + 2 serial • RAM: 32 bytes • Size: 1.2"L x 0.6"W • 24-pin DIP

Includes: Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Part No.	Product No.	1	10
130892	BS2-IC⊕	$48.55	$43.56

PARALLAX 50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.



- EEPROM program size: 2k x 8, 4,000 instructions
- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep
- Volts required: 5-12 VDC • RAM size: 32 bytes
- Scratch pad RAM: 64 bytes • Microcontroller: Ubicom SX28AC

Part No.	Product No.	No. of I/O Pins	1	10
159775	BS2SX-IC 24-pin⊕	16 + 2 serial	$58.45	$52.57

PARALLAX BASIC Stamp 2P Modules

In addition to the BS2-SX (above) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.



184911

- Program execution speed: 12,000 instructions/sec.
- EEPROM program size: 2k x 8, 4,000 instructions
- RAM size: 38 bytes (12 I/O, 26 variable) • Voltage requirements: 5-12VDC
- Current draw @ 5V: 40mA run; 400µA sleep • Scratch pad RAM: 128 bytes

Part No.	Product No.	No. of I/O Pins	1	10
184911	BS2P24-IC 24-pin♻	16 + 2 serial	$78.25	$70.39
184920	BS2P40-IC 40-pin♻	32 + 2 serial	88.15	79.30

PARALLAX 50MIPS SX Microcontroller

Part No.	Product No.	Description	1	10	100
162931	SX28AC/DP♻	DIP-28 50MIPS SX microcontroller	$4.99	$4.89	$4.79

ATMEL OTP EPROMs NEW

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1011326	AT27C256R-70JU♻♠	PLCC-32	32k x 8	256k, 70ns, 5V, I-temp	$2.09	$1.99	$1.75
1011351	AT27C256R-70PI♠	PDIP-28	32k x 8	256k, 70ns, 5V, I-temp	1.45	1.27	1.13
1011246	AT27C1024-70JI♠	PLCC-44	64k x 16	1M, 70ns, 5V, I-temp	2.35	1.92	1.77

ST EPROMs NEW

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1391171	M27C256B-10C6♠	PLCC-32	32k x 8	100ns, 5V, I-temp	$1.65	$1.43	$1.35
1391197	M27C256B-70C6♠	PLCC-32	32k x 8	70ns, 5V, I-temp	1.49	1.26	1.06
1391306	M27C512-10C6♻♠	PLCC-32	64k x 8	100ns, 5V, I-temp	1.15	1.09	1.02
394708	AC27C010-70PI	DIP-32	128k x 8	70ns, 5V, I-temp, OTP	1.49	1.40	1.33
1391293	M27C4002-10CI♻♠	PLCC-44	256k x 16	100ns, 5V, C-temp	4.55	3.95	2.95

EPROMs

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39909	2708✣	DIP-24	1k x 8	450ns, 5V	$5.99	$5.15	$3.83
33611	TMS2716✣	DIP-24	2k x 8	450ns, 5V	2.25	1.99	1.79
40002	2716✣	DIP-24	2k x 8	450ns, 5V	4.09	3.69	3.29
308662	2716A-2	DIP-24	2k x 8	200ns, 5V	5.19	4.41	3.31
40011	2716-1✣	DIP-24	2k x 8	350ns, 5V	6.49	5.89	5.39
265931	27C16-200	DIP-24	2k x 8	200ns, 5V	3.99	3.39	2.54
265965	27C16-150	DIP-24	2k x 8	150ns, 5V	6.15	5.20	3.90
40096	2732✣	DIP-24	4k x 8	450ns, 5V	7.39	6.25	4.78
39765	27C32✣	DIP-24	4k x 8	450ns, 5V	6.59	5.94	5.34
40133	2732A-45✣	DIP-24	4k x 8	450ns, 5V	3.99	3.69	3.29
33591	TMS2532✣	DIP-24	4k x 8	450ns, 5V	3.99	3.59	3.19
114876	2732B✣	DIP-24	4k x 8	450ns, 5V	4.19	3.79	3.39
40125	2732A-25✣	DIP-24	4k x 8	250ns, 5V	4.99	4.49	3.99
40109	2732A-20✣	DIP-24	4k x 8	200ns, 5V	6.49	5.99	5.49
265990	27C32-200	DIP-24	4k x 8	200ns, 5V	5.99	4.99	3.99
266001	27C32-150	DIP-24	4k x 8	150ns, 5V	6.99	5.99	4.99
40205	2764-25✣	DIP-28	8k x 8	250ns, 5V	4.75	4.30	3.85
40248	2764A-25✣	DIP-28	8k x 8	250ns, 5V	3.99	3.69	3.09
39845	27C64-25✣	DIP-28	8k x 8	250ns, 5V	4.05	3.65	3.40
40192	2764-20✣	DIP-28	8k x 8	200ns, 5V	5.59	5.08	4.55
40230	2764A-20✣	DIP-28	8k x 8	200ns, 5V	4.49	4.09	3.69
74608	27C64-20✣	DIP-28	8k x 8	200ns, 5V	4.15	3.60	2.70

✣ Refurbished = Backed by Jameco

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

EPROMs, OTP/PROMs & EEPROMs

Color Code Legend: New | Sale | Lower$ | QtySave

Additional EPROMs & EEPROMs are available online at www.Jameco.com/Semiconductors

EPROMs (Continued)

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39829	27C64-15✣	DIP-28	8k x 8	150ns, 5V	$3.95	$3.63	$3.10
105304	27C64-12✣	DIP-28	8k x 8	120ns, 5V	3.29	2.98	2.71
266036	27C64-100	DIP-28	8k x 8	100ns, 5V	4.09	3.59	2.69
39933	27128-25✣	DIP-28	16k x 8	250ns, 5V	5.15	4.79	4.19
39984	27128A-25✣	DIP-28	16k x 8	250ns, 5V	4.59	4.17	3.76
39685	27C128-25✣	DIP-28	16k x 8	250ns, 5V	4.25	3.81	3.49
39968	27128A-20✣	DIP-28	16k x 8	200ns, 5V	4.39	3.90	3.54
101101	27C128-20✣	DIP-28	16k x 8	200ns, 5V	4.39	3.95	3.56
39950	27128A-15✣	DIP-28	16k x 8	150ns, 5V	4.05	3.60	3.25
87935	27C128-12✣	DIP-28	16k x 8	120ns, 5V	4.89	4.16	3.14
266061	27C128-100	DIP-28	16k x 8	100ns, 5V	4.39	3.86	3.50
149665	27C128-70	DIP-28	16k x 8	70ns, 5V	4.89	4.16	(3.12)
40061	27256-25✣	DIP-28	32k x 8	250ns, 5V	3.19	2.99	2.69
39731	27C256-25✣	DIP-28	32k x 8	250ns, 5V	3.85	3.59	3.23
40045	27256-20✣	DIP-28	32k x 8	200ns, 5V	3.39	2.96	2.69
39722	27C256-20✣	DIP-28	32k x 8	200ns, 5V	3.15	2.99	2.63
40037	27256-15✣	DIP-28	32k x 8	150ns, 5V	3.45	3.25	2.93
39714	27C256-15✣	DIP-28	32k x 8	150ns, 5V	2.09	1.79	1.59
65904	27C256-12✣	DIP-28	32k x 8	120ns, 5V	2.09	1.99	1.79
112740	27C256-10✣	DIP-28	32k x 8	100ns, 5V	2.95	2.80	2.35
266079	27C256-55	DIP-28	32k x 8	55ns, 5V	4.15	3.93	3.18
39802	27C512-25✣	DIP-28	64k x 8	250ns, 5V	5.25	4.87	4.39
40150	27512-20✣	DIP-28	64k x 8	200ns, 5V	2.69	2.39	2.19
39790	27C512-20✣	DIP-28	64k x 8	200ns, 5V	3.75	3.47	3.11
39781	27C512-15✣	DIP-28	64k x 8	150ns, 5V	2.29	2.05	1.79
39773	27C512-12✣	DIP-28	64k x 8	120ns, 5V	2.15	2.04	1.69
131959	27C512-10✣	DIP-28	64k x 8	100ns, 5V	3.05	2.89	(2.16)
175206	27C512-90✣	DIP-28	64k x 8	90ns, 5V	1.85	1.76	1.66
118148	27C1024-15	DIP-40	64k x 16	150ns, 5V	5.29	4.79	4.39
203641	27C1024-12	DIP-40	64k x 16	120ns, 5V	6.15	5.23	4.39
39669	27C010-20✣	DIP-32	128k x 8	200ns, 5V	2.09	1.87	1.54
39651	27C010-15✣	DIP-32	128k x 8	150ns, 5V	2.15	1.79	1.52
203625	27C512-70	DIP-28	64k x 8	70ns, 5V	2.69	2.37	1.79
74624	27C010-12✣	DIP-32	128k x 8	120ns, 5V	2.25	1.91	1.43
79231	27C010-10✣	DIP-32	128k x 8	100ns, 5V	2.09	1.75	1.60
146149	27C010-70✣	DIP-32	128k x 8	70ns, 5V	2.49	2.29	2.09
266095	27C010-55	DIP-32	128k x 8	55ns, 5V	2.39	2.35	1.86
65699	27C020-15✣	DIP-32	256k x 8	150ns, 5V	5.29	4.99	4.49
78852	27C020-12✣	DIP-32	256k x 8	120ns, 5V	4.35	4.15	3.95
156267	27C020-10	DIP-32	256k x 8	100ns, 5V	2.85	2.65	2.07
127933	27C4096-12	DIP-40	256k x 16	120ns, 5V	6.59	5.60	(4.20)
85462	27C040-15✣	DIP-32	512k x 8	150ns, 5V	5.05	4.35	3.75
102293	27C040-12✣	DIP-32	512k x 8	120ns, 5V	5.05	4.35	3.75
111780	27C040-10✣	DIP-32	512k x 8	100ns, 5V	5.05	4.39	(3.29)
266124	27C040-70	DIP-32	512k x 8	70ns, 5V	4.99	4.40	(3.29)
140003	27C080-12✣	DIP-32	1M x 8	120ns, 5V	10.05	9.50	8.50
156275	27C080-10✣	DIP-32	1M x 8	100ns, 5V	7.79	7.40	7.03
203684	27C080-90	DIP-32	1M x 8	90ns, 5V	10.85	10.15	7.61

✣ Refurbished = Backed by Jameco

OTP/PROMs

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
48717	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	$8.95	$8.05	$7.25
27844	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.99	5.39	4.89
27764	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	11.39	10.92	10.38
48696	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	12.95	11.65	9.95
48805	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.15	2.96	(2.22)
27781	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	10.55	10.02	8.79
27810	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	8.95	8.05	7.25
27836	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	9.15	7.99	7.29
394986	AT27C256R-45PI⊕	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	2.59	2.30	(1.73)
395081	AT27C512R-70PI	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	1.99	1.89	1.79
203692	27C512-12 OTP	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	2.09	1.78	(1.33)
394708	AT27C010-70PI	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	1.49	1.40	1.33

EPROM Accessories

Part No.	Cross Ref.	Description	1	5
13864	CF2⊕	Conductive foam (12" x 24" x .25") hard black	$9.29	$8.35

ATMEL EEPROMs

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
846313	AT93C46A-10SU-2.7♠	SOIC-8	64 x 16	3-wire serial, 2.7V - 5.5V, I-temp.	$.63	$.296	$.275
846188	AT93C46-10PU-2.7*	DIP-8	128 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.63	.47	(.353)
846217	AT93C46-10SU-2.7♠*	SOIC-8	128 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.63	.49	.353
844431	AT25010AN-10SU-2.7♠	SOIC-8	128 x 8	SPI serial, 2.7V, I-temp.	.83	.65	.464
846364	AT93C56A-10SU-2.7♠*	SOIC-8	256 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.73	.369	.345
844465	AT25020AN-10SU-2.7	SOIC-8	256 x 8	SPI serial, 2.7V, I-temp.	.71	.61	(.453)
762110	AT24C02B-10PU-1.8♠	DIP-8	256 x 8	2-wire serial, 1.8V - 5.5V, I-temp.	.75	.58	.44
843913	AT24C04-10PU-2.7♠	DIP-8	512 x 8	2-wrie serial, 2.7V, I-temp.	.75	.59	.419
843972	AT24C04AN-10SU-2.7♠	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp.	.73	.68	.418
844001	AT24C04N-10SU-2.7♠	SOIC-8	512 x 8	2-wire serial, 2.7V - 5.5V, I-temp.	.75	.59	.419
846428	AT93C66A-10SU-2.7♠*	SOIC-8	512 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.79	.413	.386
844035	AT24C08AN-10SU-2.7♠	SOIC-8	1k x 8	2-wire serial, 2.7V, I-temp.	.81	.63	.453
844414	AT24HC02BN-10SU-1.8♠	SOIC-8	2k x 8	2-wire serial, 1.8V, I-temp.	.80	.61	.46
763964	AT93C66A-10SU-2.7♠*	SOIC-8	2k x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.95	.531	.496
844561	AT25160AN-10SU-2.7♠	SOIC-8	2k x 8	SPI serial, 2.7V, I-temp.	.89	.74	.59
762638	AT28C64-12PC♠	DIP-28	8k x 8	Parallel, 5V, Com-temp.	★	Call	Call
762654	AT28C64-15PC♠	DIP-28	8k x 8	Parallel, 5V, Com-temp.	9.69	9.49	9.29
845100	AT28C64B-15JI♠	PLCC-32	8k x 8	Parallel, 5V, I-temp.	2.95	2.73	2.56
762486	AT25640A-10PU-2.7	DIP-8	8k x 8	SPI serial, 2.7V, I-temp.	1.49	1.26	1.01
844764	AT25640AN-10SU-2.7♠	SOIC-8	8k x 8	SPI serial, 2.7V, I-temp.	1.28	1.07	.85
844545	AT25128AN-10SU-2.7♠	SOIC-8	16k x 8	SPI serial, 2.7V, I-temp.	1.39	1.11	.83
844641	AT25256AN-10SU-2.7♠	SOIC-8	32k x 8	SPI serial, 2.7V, I-temp.	1.89	1.51	1.13
844713	AT25256AW-10SU-2.7♠	SOIC-8	32k x 8	SPI serial, 2.7V, I-temp.	1.89	1.51	1.13
1920538	AT28C256-15PU♠	DIP-28	32k x 8	Paged parallel, 5V, I-temp.	5.75	5.44	5.17
845054	AT28C256-15PI	DIP-28	32k x 8	Paged parallel, 5V, I-temp.	11.99	11.75	11.39
762304	AT24C512-10PU-2.7	DIP-8	64k x 8	2-wire serial, 2.7V, I-temp.	2.75	2.21	1.83
843673	AT17LV128-10PC♠	DIP-8	128k x 1	128k-bit config eeprom mem., C-temp.	12.75	11.80	11.02
843702	AT17LV256-10PC♠	DIP-8	256k x 1	256k-bit config eeprom mem., C-temp.	13.35	12.39	11.57
843711	AT17LV512-10JC♠	PLCC-20	524k x 1	1-bit, serial, 3.3V & 5V System, Com. temp.	19.15	19.07	18.98
1009752	AT17LV010-10JI♠	PLCC-20	1M x 1	1M-bit config eeprom mem., I-temp.	29.65	28.16	26.76
762099	AT17F080-30JI♠	PLCC-20	8M x 1	Config flash, I-temp.	54.85	50.91	47.52

* - x 16 when ORG pin is connected to Vcc

★ Please call or visit our website for minimum order quantity and pricing

ST EEPROMs

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
889989	M93C46-WMN6P	SO-8	128 x 8	2.5-5.5V, 1-kbit microwire serial	$.34	$.307	$.274
1393643	M93C66-WMN6P♠	SOIC-8	512 x 8	2.5-5.5V, 4k microwire serial, I-temp	✳	.313	.293
697901	M24C16-WMN6P♠	SO-8	2k x 8	2.5-5.5V, 16-kbit serial I²C bus	✳	.256	.237
1474101	M9526-WMN6TP	SO-8	32k x 8	2.5-5.5V, 256-kbit serial SPI bus	1.99	1.69	(1.27)

CATALYST SEMICONDUCTOR, INC. Serial/Parallel EEPROMs

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Config.	Description	1	5	50
1847641	CAT24C02WI-G♠	SOIC-8	16 x 16	2kb CMOS serial, I-temp	✳	$.267	$.241
1848273	CAT93C46VI-G♠	SOIC-8	64 x 16	1kB microwire serial, I-temp	✳	.237	.222
1848345	CAT93C66L♠	PDIP-8	256 x 16	4kB microwire serial	✳	.388	.349
1847967	CAT28C256L-15♠	PDIP-28	32k x 8	150ns, 256k parallel, 5V, C-temp	6.59	6.14	5.76

MICROCHIP EEPROMs – Serial

NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Config.	Description	1	5	50
791261	93C46B/SN♠	SOIC-8	64 x 16	1k, 5V microwire (w/o org pin)	✳	$.344	$.323
791447	93LC56B/P	DIP-8	128 x 16	2.5V microwire	.44	.398	.362
791113	24LC64-I/SNG♠	SOIC-8	8k x 8	64k I2C, 2.5V, I-temp.	.94	.85	.78
791130	24LC65-I/P	DIP-8	8k x 8	64k I2C Smart, 2.5V - 6V, 100/400KHz	2.49	2.33	2.14
791009	24LC128-I/P	DIP-8	16k x 8	128k I2C CMOS, 2.5V, I-temp.	1.21	1.20	1.19

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204

Additional Flash Memory are available online at www.Jameco.com/Semiconductors

EEPROMs

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
102058	93C46	DIP-8	64 x 16	3-wire serial, 2-5V	$.43	$.32	$.24
200598	93C66	DIP-8	256 x 16	3-wire Serial, 2-5V	.37	.34	.29
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V	.71	.57	.53
200547	24C08-10	DIP-8	1k x 8	2-wire serial, 2-5V	.87	.85	.64
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V	1.29	1.20	1.11
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	3.99	3.69	2.77
40416	2817A-25	DIP-28	2k x 8	Page parallel, 5V	7.15	6.45	5.85
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	4.45	3.80	3.65
40475	2865A	DIP-28	8k x 8	5V	4.95	4.49	4.05
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V	2.35	1.90	1.70
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V	8.25	7.01	5.26
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V	8.99	6.89	6.19
276832	24C512	DIP-8	64k x 8	2-wire serial, 2-5V	2.15	2.08	1.91
276912	24C102	DIP-8	128k x 8	2-wire serial, 2.7-5V	6.65	5.18	4.77

ALTERA Configuration Devices

Part No.	Product No.	Pkg.	Description	Price
1721854	EPC1064PC8♠	DIP-8	65,536 memory bits, 5V, C-temp	$7.15
1721889	EPC1441LC20N♻	PLCC-20	440,800 memory bits, 5V or 3.3V, C-temp	4.55
1721897	EPC1441PC8♠	DIP-8	440,800 memory bits, 5V or 3.3V, C-temp	4.55
1721951	EPC1PI8N♻♠	DIP-8	1,046,496 memory bits, 5V or 3.3V, I-temp	20.09

NXP / PHILIPS Controller Interface NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1495965	ISP1520BD♻♠	LQFP-64	Hi-speed universal serial bus contrlr	$5.25	$4.19	$4.05
918938	SJA1000TD♻♠	SOIC-28	Stand alone controller	5.15	4.69	4.22

NXP / PHILIPS I²C SMBus NEW

Part No.	Product No.	Pkg.	Description	1	10	100
917476	PCA9501PW♻♠	TSSOP-20	8-bit I²C SMBus, I/O port w/ interrupt, 2-kbit EEPROM	$1.99	$1.67	$1.47
855308	PCA9535PW♻♠	TSSOP-24	16-bit I²C SMBus, LP I/O port w/ interrupt, I-temp	1.50	1.22	1.09
1350037	PCA9544APW♻♠	TSSOP-20	4-bit I²C multiplexer w/ interrupt logic, I-temp	2.39	2.14	2.00
1452156	PCA9548APW♻♠	TSSOP-24	8-ch I²C switch w/ reset, I-temp	2.09	1.69	1.47
699851	PCA9555PW♻♠	TSSOP-24	16-bit I²C SMBus, I/O port w/ interrupt, I-temp	2.89	2.71	2.53
1351831	PCF8574ATD♻♠	SOIC-16	Remote 8-bit I/O expander, I-temp	2.05	1.65	1.43
1352091	PCF8574TD♻♠	SOIC-16	Remote 8-bit I/O expander, I-temp	2.05	1.65	1.43
1352374	PCF8575TSDB♻♠	SSOP-24	Remote 16-bit I/O expander for I²C bus	2.39	1.94	1.69
917652	PCF8582C2D♻♠	DIP-8	256 x 8 CMOS EEPROM w/ I2C bus interface 2.5-6V	1.04	.86	.69

ATMEL Flash Memory – Data NEW

Part No.	Product No.	Pkg.	Description	1	10	100
845505	AT45DB011B-SC♠	SOIC-8	1M-bit, 2.7V, Com-temp	$2.45	$2.09	$1.76
845556	AT45DB011B-SU♻♠	SOIC-8	1M-bit, 2.7V, I-temp	1.37	1.10	.81
763518	AT45DCB002D♻♠	7DFI	2M-bit, 2.7V, I-temp	8.95	8.49	8.07
1920618	AT45DB041D-SU♠	SOIC-8	4MB, 2.7V, I-temp	1.55	1.45	1.38
1012564	AT45DB161D-SU♻♠	SOIC-8	16MB, 2.6V to 3.6V, I-temp	2.35	2.03	1.95
1920626	AT45DB321D-SU♠	SOIC-8	32MB, 2.7V, I-temp	4.35	4.11	3.90
845741	AT45DB642D-TU♻	TSOP-28	Dual interface , 64M-bit, 2.7V, I-temp	11.09	10.33	9.69

ATMEL Flash Memory – SPI/ISP

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
844799	AT25F1024AN-10SU-2.7♠	SOIC-8	128k x 8	SPI serial, 1M-bit, 2.7V, I-temp	$1.55	$1.24	$1.00
844861	AT25F4096W-10SU-2.7♠	SOIC-8	512k x 8	SPI serial, 4M-bit, 2.7V, I-temp	1.69	1.50	1.30

ATMEL Flash Memory

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
845302	AT29C512-90JI	PLCC-32	64k x 8	90ns, 5V, I-temp.	$2.19	$1.88	$1.68
762953	AT29C010A-70JU♻	PLCC-32	128k x 8	70ns, 5V, I-temp.	2.59	2.26	1.89
845185	AT29C010A-90JC	PLCC-32	128k x 8	90ns, 5V, Com.-temp.	3.05	2.11	1.89
762970	AT29C010A-90JU♻♠	PLCC-32	128k x 8	90ns, 5V, I-temp.	2.95	2.36	1.89
845134	AT29C010A-12JC♠	PLCC-32	128k x 8	120ns, 5V, Com.-temp.	2.95	2.58	2.21
845361	AT29LV020-10JI♠	PLCC-32	256k x 8	100ns, 3.3V, I-temp.	6.99	6.65	6.30
763032	AT29C040A-15TC	TSOP-32	512k x 8	150ns, 5V, Com.-temp.	5.09	4.75	4.46

SPANSION Page Mode Flash

Part No.	Product No.	Pkg.	Config.	Description	Temp.	1	10	100
1912811	S29GL032A90TFIR40♻♠	TSOP-48	2M x 16	90ns, 32MB, 3.0-3.6VCC bott boot	I	$3.65	$3.28	$3.08
1912861	S29GL064A11TFIR40♻♠	TSOP-48	4M x 16	110ns, 64MB, 3.0-3.6VCC bott boot	I	7.39	6.66	6.26
1912829	S29GL064A10TFIR20♻♠	TSOP-56	4M x 16	110ns, 64MB, 3.0-3.6VCC unif. sector	I	7.39	6.66	6.25
1913071	S29GL128N90TFIR20♠	TSOP-56	16M x 16	90ns, 128MB, 3.0-3.6VCC	I	13.65	12.31	11.55
1913151	S29GL256N11FFIV10♠	FBGA-64	16M x 16	110ns, 128MB, 1.65-3.6VIO	I	19.65	17.72	16.63
1913012	S29GL128N11TFI020♠	TSOP-56	16M x 16	110ns, 128MB, 2.7-3.6VCC	I	13.39	12.08	11.34
1913258	S29GL512N11FFIV10♠	FBGA-64	32M x 16	110ns, 512MB, 1.65-3.6VIO	I	26.69	24.05	22.58
1913311	S29GL512N11TFIV10♠	TSOP-56	32M x 16	110ns, 512MB, 1.65-3.6VIO	I	26.45	23.82	22.35
1913223	S29GL512N11FAI010♠	FBGA-64	32M x 16	110ns, 512MB, 2.7-3.6VCC	I	20.25	19.15	18.06
1913274	S29GL512N11TAI010♠	TSOP-56	32M x 16	110ns, 512MB, 2.7-3.6VCC	I	20.05	18.38	17.88

SPANSION 3V Boot Block Flash NEW

Part No.	Product No.	Pkg.	Config.	Description	Temp.	1	10	100
1839115	AM29LV010B-70JC♠	PLCC-32	128k x 8	70ns, 1MB, 2.7-3.6VCC unif. sector	C	$1.79	$1.56	$1.44
1839457	AM29LV200BB-70ED♻♠	TSOP-48	256k x 8	70ns, 2MB, 2.7-3.6VCC bott sector	C	2.29	2.16	1.97
1839191	AM29LV040B-60RJC♠	PLCC-32	512k x 8	60ns, 4MB, 3.0-3.6VCC unif. sector	C	3.09	2.58	2.36
1912335	S29AL004D70TFI020♻♠	TSOP-48	512k x 8	70ns, 4MB, 2.7-3.6VCC bott boot	I	1.79	1.62	1.46
1912327	S29AL004D70TAI020♠	TSOP-48	512k x 8	70ns, 4MB, 2.7-3.6VCC bott boot	I	1.49	1.36	1.28
1839246	AM29LV040B-70JD♻♠	PLCC-32	512k x 8	70ns, 4MB, 2.7-3.6VCC unif. sector	C	3.35	3.02	2.86
1839211	AM29LV040B-70EF♻♠	TSOP-32	512k x 8	70ns, 4MB, 2.7-3.6VCC unif. sector	I	2.65	2.47	2.26
1839203	AM29LV040B-70EC♠	TSOP-32	512k x 8	70ns, 4MB, 2.7-3.6VCC unif. sector	C	3.35	3.02	2.86
1912386	S29AL004D90TFI020♻♠	TSOP-48	512k x 8	90ns, 4MB, 2.7-3.6VCC bott boot	I	1.59	1.48	1.39
1912360	S29AL004D90TAI010♠	TSOP-48	512k x 8	90ns, 4MB, 2.7-3.6VCC top boot	I	1.75	1.58	1.49
1839300	AM29LV040B-90JI♠	PLCC-32	512k x 8	90ns, 4MB, 2.7-3.6VCC unif. sector	I	3.09	2.78	2.64
1839297	AM29LV040B-90JC♠	PLCC-32	512k x 8	90ns, 4MB, 2.7-3.6VCC unif. sector	C	3.09	2.55	2.34
1838930	AM29LV004BB-90ED♻♠	TSOP-40	512k x 8	90ns, 4MB, 3V bottom sector	C	2.89	2.71	2.48
1839182	AM29LV040B-120JC♠	PLCC-32	512k x 8	120ns, 4MB, 2.7-3.6VCC unif. sector	C	3.09	2.55	2.34
1912394	S29AL008D55TFIR20♻♠	TSOP-48	1M x 8	55ns, 8MB, 3-3.6VCC bott boot	I	2.19	1.99	1.87
1912423	S29AL008D70TFI010♻♠	TSOP-48	1M x 8	70ns, 8MB, 2.7-3.6VCC top boot	I	1.95	1.76	1.65
1912415	S29AL008D70TAI020♠	TSOP-48	1M x 8	70ns, 8MB, 2.7-3.6VCC bott boot	I	1.95	1.76	1.65
1838981	AM29LV008BB-70REI♠	TSOP-40	1M x 8	70ns, 8MB, 3-3.6VCC bott sector	I	4.09	3.69	3.49
1839393	AM29LV081B-70ED♻♠	TSOP-40	1M x 8	70ns, 8MB, 2.7-3.6VCC unif. sector	C	3.65	3.41	3.12
1912474	S29AL008D90TFI010♻♠	TSOP-48	1M x 8	90ns, 8MB, 2.7-3.6VCC top boot	I	1.75	1.60	1.45
1912466	S29AL008D90TAI020♠	TSOP-48	1M x 8	90ns, 8MB, 2.7-3.6VCC bott boot	I	1.89	1.72	1.61
1912440	S29AL008D90BFI020♻♠	FBGA-48	1M x 8	90ns, 8MB, 2.7-3.6VCC bott boot	I	1.95	1.79	1.67
1912431	S29AL008D90BAI020♠	FBGA-48	1M x 8	90ns, 8MB, 2.7-3.6VCC bott boot	I	1.95	1.76	1.65
1839001	AM29LV008BB-90ED♻♠	TSOP-40	1M x 8	90ns, 8MB, 2.7-3.6VCC bott sector	C	3.39	3.16	2.89
1839414	AM29LV081B-90ED♻♠	TSOP-40	1M x 8	90ns, 8MB, 2.7-2.6VCC unif. sector	C	3.25	3.07	2.81
1926391	S29AL008D90TFI020♻♠	TSOP-48	1M x 8	90ns, 8MB, 3V bottom boot	I	1.75	1.65	1.57
1839369	AM29LV081B-120EF♻♠	TSOP-40	1M x 8	120ns 8MB, 2.7-3.6VCC unif. sector, Ext temp		3.59	3.25	3.08
1912520	S29AL016D70TFI020♻♠	TSOP-48	2M x 8	70ns, 16MB, 2.7-.6VCC bott boot	I	2.49	2.26	2.12
1912511	S29AL016D70TFI010♻♠	TSOP-48	2M x 8	70ns, 16MB, 2.7-3.6VCC top boot	I	2.49	2.26	2.12
1912503	S29AL016D70TAI010♠	TSOP-48	2M x 8	70ns, 16MB, 2.7-3.6VCC top boot	I	2.49	2.25	2.12
1912491	S29AL016D70BFI020♻♠	FBGA-48	2M x 8	70ns, 16MB, 2.7-3.6VCC bott boot	I	2.49	2.26	2.11
1912482	S29AL016D70BAI020♠	FBGA-48	2M x 8	70ns, 16MB, 2.7-3.6VCC bott boot	I	2.59	2.31	2.09
1912589	S29AL016D90TFI020♻♠	TSOP-48	2M x 8	90ns, 16MB, 2.7-3.6VCC bott boot	I	2.39	2.15	1.98
1912571	S29AL016D90TAI010♠	TSOP-48	2M x 8	90ns, 16MB, 2.7-3.6VCC top boot	I	2.49	2.26	2.12
1912642	S29AL032D70TFI040♻♠	TSOP-48	4M x 8	70ns, 32MB, 2.7-3.6VCC bott boot	I	3.79	3.47	3.16
1912626	S29AL032D70TAI000♠	TSOP-40	4M x 8	70ns, 32MB, 2.7-3.6VCC unif. sector	I	3.79	3.48	3.16
1926438	S29AL032D90TAI040♠	TSOP-48	4M x 8	90ns, 32MB, 3V bottom boot	I	4.19	3.95	3.77
1926446	S29AL032D90TFI040♻♠	TSOP-48	4M x 8	90ns, 32MB, 3V bottom boot	I	4.19	3.95	3.77
1839334	AM29LV065DU90REF♻♠	TSOP-48	8M x 8	90ns, 64MB, 3-5VIO unif. sector	I	20.59	18.53	17.58
1839318	AM29LV065DU120REF♻♠	TSOP-48	8M x 8	120ns, 64MB, 3-5VIO unif. sector	I	18.65	17.48	15.98

SPANSION 5V Boot Block Flash

Part No.	Product No.	Pkg.	Config.	Description	Temp.	1	10	100
1837718	AM29F010B-45JD♻♠	PLCC-32	128k x 8	45ns, 1MB, 5V unif. sector	C	$2.45	$2.28	$2.08
1837726	AM29F010B-45JI♠	PLCC-32	128k x 8	45ns, 1MB, 5V unif. sector	I	2.45	2.28	2.08
1837742	AM29F010B-55JI♠	PLCC-32	128k x 8	55ns, 1MB, 5V unif. sector	I	2.49	2.04	1.86
1837777	AM29F010B-55PI♠	PDIP-32	128k x 8	55ns, 1MB, 5V unif. sector	I	3.35	3.03	2.73
1837785	AM29F010B-70JC♠	PLCC-32	128k x 8	70ns, 1MB, 5V unif. sector	C	2.45	1.99	1.83
1837793	AM29F010B-70JF♻♠	PLCC-32	128k x 8	70ns, 1MB, 5V unif. sector	I	2.05	1.92	1.75

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

SPANSION 5V Boot Block Flash (Continued) NEW

Part No.	Product No.	Pkg.	Config.	Description	Temp.	1	10	100
1837831	AM29F010B-70PD	PDIP-32	128k x 8	70ns, 1MB, 5V unif. sector	C	$2.85	$2.74	$2.36
1837849	AM29F010B-70PF	PDIP-32	128k x 8	70ns, 1MB, 5V unif. sector	I	2.45	2.19	1.67
1837873	AM29F010B-90JD	PLCC-32	128k x 8	90ns, 1MB, 5V unif. sector	C	2.85	2.74	2.36
1837881	AM29F010B-90JF	PLCC-32	128k x 8	90ns, 1MB, 5V unif. sector	I	1.99	1.86	1.71
1837911	AM29F010B-90PD	PDIP-32	128k x 8	90ns, 1MB, 5V unif. sector	C	1.95	1.80	1.64
1837620	AM29F010B-120EC	TSOP-32	128k x 8	120ns, 1MB, 5V unif. sector	C	2.85	2.74	2.35
1837646	AM29F010B-120JC	PLCC-32	128k x 8	120ns, 1MB, 5V unif. sector	C	2.45	2.02	1.85
1837662	AM29F010B-120JI	PLCC-32	128k x 8	120ns, 1MB, 5V unif. sector	I	2.65	2.59	2.23
1837689	AM29F010B-120PD	PDIP-32	128k x 8	120ns, 1MB, 5V unif. sector	C	2.05	1.92	1.75
1838331	AM29F200BB-70EC	TSOP-48	256k x 8	70ns, 2MB, 5V bottom sector	C	3.39	3.28	2.80
1838147	AM29F040B-55JF	PLCC-32	512k x 8	55ns, 4MB, 5V unif. sector	I	2.85	2.66	2.43
1838534	AM29F400BB-55SI	SOIC-44	512k x 8	55ns, 4MB, 5V bottom sector	I	5.09	4.93	4.24
1838665	AM29F400BT-70EC	TSOP-48	512k x 8	70ns, 4MB, 5V bottom sector	C	4.29	4.15	3.57
1920280	AM29F040B-70JC	PLCC-32	512k x 8	70ns, 4MB, 5V unif. sector	C	2.39	2.24	2.13
1920301	AM29F040B-90JC	PLCC-32	512k x 8	90ns, 4MB, 5V unif. sector	C	2.39	2.24	2.13
1838235	AM29F040B-90JD	PLCC-32	512k x 8	90ns, 4MB 5V unif. sector	C	3.29	3.21	2.75
1920319	AM29F040B-90JI	PLCC-32	512k x 8	90ns, 4MB 5V unif. sector	I	2.39	2.24	2.13
1838260	AM29F040B-90PD	PDIP-32	512k x 8	90ns, 4MB 5V unif. sector	C	2.29	2.16	1.97
1838227	AM29F040B-90EI	TSOP-32	512k x 8	90ns, 4MB 5V unif. sector	I	3.29	3.20	2.75
1838622	AM29F400BB-90SF	SOIC-44	512k x 8	90ns, 4MB, 5V bottom sector	I	2.85	2.67	2.45
1838614	AM29F400BB-90SC	SOIC-44	512k x 8	90ns, 4MB, 5V bottom sector	C	4.45	4.32	3.70
1838593	AM29F400BB-90EC	TSOP-48	512k x 8	90ns, 4MB, 5V bottom sector	C	2.75	2.57	2.35
1838083	AM29F040B-120JD	PLCC-32	512k x 8	120ns, 4MB, 5V unif. sector	C	3.29	3.21	2.75
1920271	AM29F040B-120JC	PLCC-32	512k x 8	120ns, 4MB, 5V unif. sector	C	2.39	2.24	2.13
1838091	AM29F040B-120JF	PLCC-32	512k x 8	120ns, 4MB, 5V unif. sector	I	2.39	2.26	2.07
277261	AM29F800BB-70EC	TSOP-48	1M x 8	70ns, 8MB, 5V bottom sector	C	6.95	6.59	6.29
1838841	AM29F800BT-70ED	TSOP-48	1M x 8	70ns, 8MB, 5V top sector	C	3.85	3.59	3.28
1920351	AM29F800BB-90EC	TSOP-48	1M x 8	90ns, 8MB, 5V bottom sector	C	3.99	3.79	3.62
1838796	AM29F800BB-90SC	SOIC-44	1M x 8	90ns, 8MB, 5V bottom sector	C	3.15	3.04	2.89
1838286	AM29F080B-90EI	TSOP-40	1M x 8	90ns, 8MB, 5V unif. sector	I	4.65	4.46	3.84
1838024	AM29F016D-90EC	TSOP-48	2M x 8	90ns, 16MB, 5V unif. sector	C	4.95	4.62	4.28
1838016	AM29F016D-90E4D	TSOP-40	2M x 8	90ns, 16MB, 5V unif. sector	C	5.95	5.57	5.09
1920255	AM29F016D-90EI	TSOP-48	2M x 8	90ns, 16MB, 5V unif. sector	I	5.85	5.53	5.27
1837937	AM29F016D-120EC	TSOP-48	2M x 8	120ns, 16MB. 5V unif. sector	C	7.95	7.70	6.61
1838041	AM29F032B-90EF	TSOP-40	4M x 8	90ns, 32MB, 5V unif. sector	I	11.15	10.42	9.53

CATALYST SEMICONDUCTOR, INC. Flash Memory

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1848118	CAT28F020L-12	PDIP-32	256k x 8	120ns, 2MB, C-temp	$8.25	$8.01	$7.79
1848089	CAT28F020G-12	PLCC-32	256k x 8	120ns, 2MB, C-temp	8.25	8.02	7.79

RENESAS Flash Memory

Part No.	Product No.	Pkg.	Description	1	10	100
788862	HD64F2168VTE33	TQFP-144	16-bit single chip microcomputer	$40.95	$38.27	$35.88
788897	HD64F2623FA20	QFP-100	16-bit single chip microcomputer	39.35	36.73	34.44
789099	HM62V8100LTTI-5SL	TSOP-44	16-bit single chip microcomputer	9.55	9.06	8.61

SPANSION Flash Memory NEW

Part No.	Product No.	Pkg.	Config.	Description	Temp.	1	10	100
1913397	S29PL032J70BAI120	FBGA-48	2M x 16	70ns, 32MB, 3.0VIO	I	$5.55	$4.56	$4.19
1839537	AM29LV641DH90REF	TSOP-48	4M x 16	90ns, 64MB, 3.0-5VIO unif. sec hi add	I	19.49	18.29	16.72
1920407	AM29LV641DL90REI	TSOP-48	4M x 16	90ns, 64MB, 3V uniif. sector	I	19.15	18.18	17.33
1839511	AM29LV640DU90RWHF	FBGA-63	4M x 16	90ns, 64MB, 3.0-5VIO unif. sector	I	20.75	18.65	17.70
1926551	S29JL064H90TAI000	TSOP-48	4M x 16	90ns, 64M, 3V simultaneous	I	9.15	8.69	8.29
1926526	S29GL512N11FFI010	FBGA-64	32M x 16	110ns, 512MB, 2.7-3.6V	I	25.29	24.05	22.92

ST Flash Memory NEW

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1471242	M25P40-VMN6P	SOIC-8	512k x 8	2.3-3.6V, LV serial w/ 50MHZ SPI intf, I-temp	$2.75	$2.45	$2.15
811444	M29F040B70K6E	PLCC-32	512k x 8	70ns, 5V, uniform block	2.45	2.21	1.99
1392456	M29W800DB70N6E	TSOP-49	1M x 8	80ns, 2.3-3.6V bottom boot, 70ns, I-temp	2.99	2.86	2.59
697928	M25P32-VME6G	MLP-8	4M x 8	2.7-3.6V, LV serial w/ 50MHz SPI intf, I-temp	4.15	3.99	3.65

Flash Memory

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
74771	28F010-15	DIP-32	128k x 8	150ns, 5V	$5.49	$4.12	$3.66
242587	29F010-120	DIP-32	128k x 8	120ns, 5V	3.95	3.65	3.15
242595	29F010-90	DIP-32	128k x 8	90ns, 5V	5.35	4.34	3.26
242608	29F010-70	DIP-32	128k x 8	70ns, 5V	6.09	5.18	3.89
74835	28F020-15	DIP-32	256k x 8	150ns, 5V	9.55	8.58	7.74
242616	29F020-12	DIP-32	256k x 8	120ns, 5V	4.99	4.88	3.66
242659	29F040-120	DIP-32	512k x 8	120ns, 5V	8.95	8.65	8.25
242667	29F040-90	DIP-32	512k x 8	90ns, 5V	9.05	8.60	8.15

MICRON DDR/DDR2 SDRAM NEW

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1441991	MT46V16M16BG-6 IT:F	FBGA-60	16M x 16	333MHZ, 6ns, I-temp	$16.69	$15.02	$13.52
1442038	MT46V16M16FG-6 IT:F	FGBA-60	16M x 16	333MHZ, 6ns, I-temp	12.69	12.08	11.50
1442062	MT46V16M16P-75:F	TSOP-66	16M x 16	266MHz, 7.5ns, C-temp	10.99	10.43	9.91
1925363	MT47H16M16BG-5E:B	FBGA-84	16M x 16	400MHz, 5ns, C-temp (DDR2)	12.95	12.23	11.62
1442396	MT47H16M16BG-5E IT:B	FBGA-84	16M x 16	400MHz, 5ns, I-temp (DDR2)	14.79	13.30	11.97
1441895	MT46H16M32LFCM-6 IT	VFBGA-90	16M x 32	166MHz, 6ns, I-temp	24.35	21.93	19.74
1442169	MT46V32M16FN-6 IT:F	FBGA-60	32M x 16	333MHZ, 6ns, I-temp	29.09	27.64	26.26
1925380	MT47H32M16CC-3:B	FBGA-84	32M x 16	167MHz, 3ns, C-temp. (DDR2)	15.85	14.98	14.23
1442257	MT46V64M16P-6T:A	TSOP-66	64M x 16	333MHz, 6ns, C-temp	228.95	217.51	206.63
1442409	MT47H64M16BT-37E:A	FBGA-92	64M x 16	533MHz, 3.75ns (DDR2)	106.29	95.66	86.09

MICRON SDRAM NEW

Part No.	Product No.	Pkg.	Config.	Description	1	10
699341	MT48LC2M32B2P-7:G	TSOP-86	2M x 32	143MHz, 7ns, C-temp	★	Call
1442601	MT48LC2M32B2P-6:G	TSOP-86	2M x 32	166MHz, 5ns, C-temp	4.25	4.17
1442775	MT48LC4M16A2P-75 IT:G	TSOP-54	4M x 16	133MHz, 7.5ns, I-temp	5.05	4.79
1442804	MT48LC4M16A2P-7E:G	TSOP-54	4M x 16	133MHz, 7.5ns, C-temp	5.09	4.60
1925451	MT48LC4M32B2F5-7 IT:G	FBGA-90	4M x 32	143MHz, 7ns, I-temp	15.35	14.50
1925478	MT48LC4M32B2P-6:G	TSOP-86	4M x 32	166MHz, 6ns, C-temp	11.25	10.63
1925494	MT48LC4M32B2TG-6:G	TSOP-86	4M x 32	166MHz, 6ns, C-temp	11.25	10.63
1925515	MT48LC8M16A2P-75:G	TSOP-54	8M x 16	133MHz, 7.5ns, C-temp	7.55	7.13
792175	MT48LC16M16A2FG-7E:D	FBGA-54	16M x 16	133MHz, 7.5ns, C-temp	12.99	12.34
1442695	MT48LC32M16A2P-75:C	TSOP-54	32M x 16	100MHz, 6ns, I-temp	37.25	35.38
699413	MT48LC32M16A2TG-75:C	TSOP-54	32M x 16	133MHz, 7.5ns, C-temp	★	Call
699405	MT48LC32M16A2TG-75 IT:C	TSOP-54	32M x 16	133MHz, 7.5ns, I-temp	★	Call

★ Please call or visit our website for minimum order quantity and pricing

Legacy DRAM

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
41662	4164-150	DIP-16	64k x 1	150ns (MCM6665-15)	$1.02	$.92	$.84
41574	41464-10	DIP-18	64k x 4	100ns (HY53C464S-10)	1.69	1.65	1.59
42315	514256P-80	DIP-20	256k x 4	80ns (UPD424256-80)	2.49	2.25	2.05
93374	514256P-70	DIP-20	256k x 4	70ns (TC514256P-70)	2.79	2.49	2.19
128688	HM514260	SOJ	256k x 16	70ns	3.39	3.05	2.75

♣ Pull = Extra Savings

Legacy Memory Module

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Capacity	Description	Config.	Pins	1	10
41751	421000A9B-70	1MB	70ns SIMM	1M x 9	30	$4.95	$3.95

CYPRESS Static RAM NEW

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
861388	CY7C136-55JC	PLCC-52	2k x 8	55ns, dual port SRAM, C-temp	$5.89	$5.40	$4.99
1921346	CY6264-70SNXC	SOIC-28	8k x 8	70ns, 64kB, 5V µpwr SRAM	4.05	3.79	3.60
1921320	CY62256NLL-70PXC	DIP-28	32k x 8	70ns, 256kB, 5V µpwr SRAM	2.95	2.78	2.64
1921240	CY62128ELL-45SXI	SOIC-32	128k x 8	45ns, 1MB, 5V µpwr SRAM	3.39	3.19	3.03
1921389	CY7C1041DV33-10ZSXI	TSOP-44	256k x 16	4MB, 3.3V asynch. SRAM	5.95	5.63	5.35
1182395	CY62148EV30LL-45ZSXI	SOIC-32	512k x 8	45ns, 4MB, 2.2-3.6V, I-temp	5.39	5.12	4.86
1921291	CY62157EV30LL-45ZXI	TSOP-48	512k x 16	45ns, 8MB, 5V µpwr SRAM	11.75	11.12	10.56
1182993	CY7C1370D-167AXC	TQFP-100	512k x 36	167MHz, 18MB, 3.3V pipelined, C-temp	33.09	31.43	29.85
1183099	CY7C1380D-167AXC	TQFP-100	512k x 36	167MHz, 18MB pipelined, C-temp	29.99	27.99	25.99
1921434	CY7C1061AV33-10ZXI	TSOP-54	1M x 16	16MB, 3.3V asynch. SRAM	50.55	47.85	45.46

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional RAM are available online at www.Jameco.com/Semiconductors

IDT Static RAM

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1597988	7164L35P♠	DIP-28	8k x 8	35ns,LP, 64kbit, C-temp, 600 mill	$5.05	$4.53	$3.60
1598032	7164S35P♠	DIP-28	8k x 8	35ns, 64kbit, C-temp, 600 mill	4.79	4.33	3.60
1598972	71V256SA12Y♠	SOJ-28	32k x 8	3.3V, 12ns, 256kbit, C-temp, 300 mill	1.48	1.38	1.29
1597208	71256SA15Y♠	SOJ-28	32k x 8	15ns, 256kbit, C-temp, 300 mill	1.35	1.20	1.04
1597275	71256SA20Y♠	SOJ-28	32k x 8	20ns, 256kbit, C-temp, 300 mill	1.35	1.20	1.04
1597304	71256SA20YI♠	SOJ-28	32k x 8	20ns, 256kbit, I-temp, 300 mill	1.09	1.06	1.04
1597339	71256SA25Y♠	SOJ-28	32k x 8	25ns, 256kbit, C-temp, 300 mill	1.44	1.29	1.04
1597152	71256L35Y♠	SOJ-28	32k x 8	35ns, 256kbit, C-temp, LP, 300 mill	3.85	3.72	3.60
1598569	71V016SA10PH♠	TSOP-44	64k x 16	3.3V, 10ns, 1Mbit, C-temp, 400 mill	1.75	1.57	1.52
1598593	71V016SA12PH♠	TSOP-44	64k x 16	3.3V, 12ns, 1Mbit, C-temp, 400 mill	1.95	1.75	1.52
1598729	71V124SA12Y♠	SOJ-32	64k x 16	3.3V, 12ns, 1Mbit, C-temp, 400 mill	2.19	2.02	1.89
1596838	71016S15PH♠	TSOP-44	64k x 16	15ns, 1Mbit, C-temp, 400 mill	2.09	1.99	1.90
1596862	71016S15Y♠	SOJ-44	64k x 16	15ns, 1Mbit, C-temp, 400 mill	2.09	1.99	1.90
1596942	71024S15TY♠	SOJ-32	128k x 8	15ns, 1Mbit, C-temp, 300 mill	2.09	2.00	1.90
1596977	71024S15Y♠	SOJ-32	128k x 8	15ns, 1Mbit, C-temp, 400 mill	2.09	1.99	1.90
1597048	71024S20YI♠	SOJ-32	128k x 8	20ns, 1Mbit, I-temp, 400 mill	2.75	2.53	2.37
1600585	71V416L10PH♠	TSOP-44	256k x 16	3.3V LP, 10ns, 4Mbit, C-temp	4.69	4.21	3.84
1600665	71V416S10PH♠	TSOP-44	256k x 16	3.3V, 10ns, 4Mbit, C-temp	4.89	4.42	3.84
1600690	71V416S12PH♠	TSOP-44	256k x 16	3.3V, 12ns, 4Mbit, C-temp	5.25	4.71	3.84
1600745	71V416S15PH♠	TSOP-44	256k x 16	3.3V, 15ns, 4Mbit, C-temp	5.49	5.12	4.80
1600825	71V416S15PHI♠	TSOP-44	256k x 16	3.3V, 15ns, 4Mbit, I-temp	5.69	5.28	4.95
1601086	71V424S10Y♠	SOJ-36	512k x 8	3.3V, 10ns, 4Mbit, C-temp, 400 mill	5.69	5.28	4.95

Static RAM

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
38931	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	$1.69	$1.55	$1.35
42198	5101♣	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.99	7.19	6.49
38957	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	2.29	1.99	1.79
43238	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns	3.95	3.65	3.35
38973	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.49	2.09	1.89
38981	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP	2.25	2.05	1.85
38746	2016-20	DIP-24	2k x 8	16-Kbit, 5V, 200ns	.80	.73	.66
114260	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV SRAM	14.35	12.56	7.58
25911	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns	8.69	7.43	5.57
42809	6116P-3♣	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.49	1.29	1.09
42753	6116LP-3♣	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP	1.95	1.75	1.59
42796	6116P-2♣	DIP-24	2k x 8	16-Kbit, 5V, 120ns	1.59	1.39	1.29
42788	6116P-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.95	1.75	1.63
42737	6116LP-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP	1.99	1.79	1.65
392294	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns	3.95	3.55	3.19
85121	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.55	3.17	2.86
42884	6264LP-10♣	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.65	2.49	2.25
42921	6264P-10♣	DIP-28	8k x 8	64-Kbit, 5V, 100ns	2.65	2.09	2.03
42892	6264LP-12♣	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.99	2.66	2.34
42930	6264P-12♣	DIP-28	8k x 8	64-Kbit, 5V, 120ns	2.65	2.39	2.15
114278	DS1225AB-15	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV SRAM	15.99	12.65	9.89
114307	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV SRAM	15.95	14.49	11.65
242333	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns Async.	3.29	2.80	2.10
177113	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV SRAM	15.75	14.60	11.75
114323	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV SRAM	20.25	17.10	10.25
41970	43256-10L♣	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	5.49	4.99	4.49
41988	43256-12L♣	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	4.99	4.49	4.09
242376	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch.	1.99	1.69	1.27
75037	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns	3.39	2.99	2.69
82472	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	4.95	4.50	4.05
391793	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	2.85	2.42	1.82
391822	CY62256LL-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.85	2.30	1.80
391890	CY62256LL-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.85	2.42	1.90
42876	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP	3.29	2.66	2.13
42833	62256LP-10♣	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	3.75	3.20	2.40
42850	62256LP-12♣	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	3.89	3.49	3.19
391831	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	3.55	3.19	2.87
391996	CY62128BLL-70ZC	TSSOP-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.85	2.30	2.10

♣ Pull = Extra Savings

Static RAM (Continued)

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
279873	628128S-70	SOP-32	128k x 8	1-Mbit, 5V, 70ns	$2.49	$2.19	$1.89
131810	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP	8.99	7.39	6.69
103982	628128LP-85♣	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	10.65	9.03	6.76
157358	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	19.19	17.15	16.35
280049	628512S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Asynch.	6.29	5.69	5.12

♣ Pull = Extra Savings

Catalyst Semiconductor, Inc. Non-Volatile SRAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
1847781	CAT24C44LI℞♠	DIP-8	16 x 16	256-bit NV SRAM, I-temp	$2.29	$1.84	$1.72
1847772	CAT24C44L℞♠	DIP-8	16 x 16	256-bit NV SRAM, C-temp	2.29	1.84	1.72

Lattice Semiconductor Corporation GALs

NEW

Part No.	Cross Ref.	Pkg.	Description	1	10	100
876475	GAL16V8D-15QJ	PLCC-20	15ns 64 x 32 AND array	$2.45	$1.96	$1.68
876951	GAL22V10D-15LP	DIP-24	15ns 132 x 44 AND array	7.25	6.50	5.92
877013	GAL22V10D-25LJ	PLCC-28	25ns 132 x 44 AND array, C-temp	4.05	3.45	3.12

Texas Instruments PALs

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
759332	TIBPAL16L8-10CN♠	DIP-20	10ns, 10 inputs, 2 outpus, 6 I/O	$3.89	$3.12	$3.02
759412	TIBPAL16L8-25CN♠	DIP-20	25ns, 10 inputs, 2 outputs, 6 I/O	2.29	1.90	1.66
759455	TIBPAL16R4-25CN♠	DIP-20	25ns 8 inputs, 4 reg. outputs, 4 I/O ports	2.55	2.34	2.17

PALs & GALs

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
28020	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	$2.25	$1.75	$1.31
652615	16V8-7	DIP-20	7ns 64 x 32 AND array	3.29	2.82	2.59
88399	16V8-10*	DIP-20	10ns 64 x 32 AND array	1.99	1.79	1.59
37452	16V8-15*	DIP-20	15ns 64 x 32 AND array	1.59	1.40	1.05
37461	16V8-25*	DIP-20	25ns 64 x 32 AND array	1.35	1.16	1.05
105953	18CV8P-25	DIP-20	25ns 74 x 36 AND array	2.69	2.39	2.15
88292	20V8-10**	DIP-24	10ns 64 x 40 AND array	2.65	2.27	1.70
38658	20V8-15**	DIP-24	15ns 64 x 40 AND array	1.85	1.27	1.15
315361	22CV10AP-7	DIP-24	7ns 132 x 44 AND array	4.29	3.19	3.10
105996	22CV10AP-25	DIP-24	25ns 132 x 44 AND array	2.59	2.20	1.65
123801	22V10-10	DIP-24	10ns 132 x 44 AND array	5.49	4.99	4.49
39159	22V10-15	DIP-24	15ns 132 x 44 AND array	4.49	3.96	2.97
39167	22V10-25	DIP-24	25ns 132 x 44 AND array	4.25	3.73	3.31

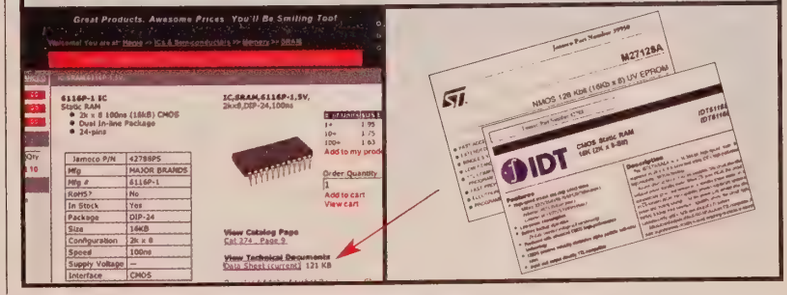
GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6,16RP8, 14H8, 14L8, 14P8, 16H6, 16L6. 16P6

** Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com



♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

ALTERA. CPLDs

Part No.	Product No.	Pkg.	Description	Temp.†	Price
1723112	EPM3032ATC44-7♠	TQFP-44	32 macrocells, 600 gates, 34 I/O	C	$1.89
1723139	EPM3032ATI44-10N♠	TQFP-44	32 macrocells, 600 gates, 34 I/O	I	1.89
1723606	EPM7032AELC44-10N♠	PLCC-44	32 macrocells, 600 gates, 36 I/O, 4.5ns	C	2.75
1723761	EPM7032SLC44-6N♠	PLCC-44	32 macrocells, 600 gates, 36 I/O, 6ns	C	20.09
1723770	EPM7032SLC44-7N♠	PLCC-44	32 macrocells, 600 gates, 36 I/O, 7ns	C	14.05
1723702	EPM7032LI44-10♠	PLCC-44	32 macrocells, 600 gates, 36 I/O, 10ns	I	22.45
1723711	EPM7032LI44-12♠	PLCC-44	32 macrocells, 600 gates, 36 I/O, 12ns	I	25.05
1723729	EPM7032QC44-10♠	PQFP-44	32 macrocells, 600 gates, 36 I/O, 10ns	C	21.55
1723737	EPM7032QC44-7♠	PQFP-44	32 macrocells, 600 gates, 36 I/O, 7ns	C	32.35
1723788	EPM7032SLI44-7♠	PLCC-44	32 macrocells, 600 gates, 36 I/O, 7ns	I	14.05
1723825	EPM7032STC44-5♠	TQFP-44	32 macrocells, 600 gates, 36 I/O, 5ns	C	26.59
1723198	EPM3064ATI100-10N♠	TQFP-100	64 macrocells, 1,250 gates, 66 I/O	I	4.89
1723913	EPM7064AETC100-10♠	TQFP-100	64 macrocells, 1,250 gates, 68 I/O, 10ns	C	14.65
1723930	EPM7064AETC44-10N♠	TQFP-44	64 macrocells, 1,250 gates, 68 I/O, 10ns	C	9.85
1723972	EPM7064AETI44-7N♠	TQFP-44	64 macrocells, 1,250 gates, 68 I/O, 7ns	I	42.15
1724027	EPM7064BTC44-3♠	TQFP-44	64 macrocells, 1,250 gates, 68 I/O, 3ns	C	38.15
1724078	EPM7064LC44-15♠	PLCC-44	64 macrocells, 1,250 gates, 68 I/O, 15ns	C	13.55
1724086	EPM7064LC68-15♠	PLCC-68	64 macrocells, 1,250 gates, 68 I/O, 15ns	C	26.19
1724094	EPM7064LC68-7♠	PLCC-68	64 macrocells, 1,250 gates, 68 I/O, 7ns	C	52.65
1724158	EPM7064QC100-15♠	PQFP-100	64 macrocells, 1,250 gates, 68 I/O, 15ns	C	38.25
1724211	EPM7064SLC84-10N♠	PLCC-84	64 macrocells, 1,250 gates, 68 I/O, 10ns	C	19.79
1724300	EPM7064STC44-10N♠	TQFP-44	64 macrocells, 1,250 gates, 68 I/O, 10ns	C	9.75
1724326	EPM7064STC44-6♠	TQFP-44	64 macrocells, 1,250 gates, 68 I/O, 6ns	C	48.65
1724342	EPM7064STI100-7N♠	TQFP-100	64 macrocells, 1,250 gates, 68 I/O, 7ns	I	67.45
1723235	EPM3128ATC100-7N♠	TQFP-100	128 macrocells, 2,500 gates, 98 I/O	C	15.25
1723260	EPM3128ATC144-7N♠	TQFP-144	128 macrocells, 2,500 gates, 98 I/O	C	16.55
1724414	EPM7128AETI100-7♠	TQFP-100	128 maccells, 2,500 gates, 100 I/O, 7ns	I	103.09
1724529	EPM7128ELC84-20♠	PLCC-84	128 maccells, 2,500 gates, 100 I/O, 20ns	C	47.75
1724537	EPM7128EQC100-10♠	PQFP-100	128 maccells, 2,500 gates, 100 I/O, 10ns	C	107.65
1724617	EPM7128SLC84-7N♠	PLCC-84	128 maccells, 2,500 gates, 100 I/O, 7ns	C	54.45
1724650	EPM7128SQC100-15N♠	PQFP-100	128 maccells, 2,500 gates, 100 I/O, 15ns	C	31.15
1724684	EPM7128SQI100-10♠	PQFP-100	128 maccells, 2,500 gates, 100 I/O, 10ns	I	68.75
1724713	EPM7128STC100-7N♠	TQFP-100	128 maccells, 2,500 gates, 100 I/O, 7ns	C	79.09
1724756	EPM7160ELI84-20♠	PLCC-84	160 maccells, 3,200 gates, 104 I/O, 20ns	I	114.89
1724895	EPM7192EGC160-20♠	PGA-160	192 maccells, 3,750 gates, 124 I/O, 20ns	C	296.89
1724941	EPM7192SQC160-15♠	PQFP-160	192 maccells, 3,750 gates, 124 I/O, 15ns	C	68.09
1722945	EPM240GF100C5N♠	FBGA-100	192 maccells, 8,192 UFM bits, 80 I/O, 4.7ns	C	11.05
1722953	EPM240GF100I5N♠	FBGA-100	192 maccells, 8,192 UFM bits, 80 I/O, 4.7ns	I	14.15
1722961	EPM240GM100C5N♠	MBGA-100	192 maccells, 8,192 UFM bits, 80 I/O, 4.7ns	C	10.89
1723059	EPM240T100C4N♠	TQFP-100	192 maccells, 8,192 UFM bits, 80 I/O, 4.7ns	C	13.89
1723331	EPM3256ATC144-7N♠	TQFP-144	256 maccells, 5,000 gates, 161 I/O	C	29.49
1725046	EPM7256AETC100-7N♠	TQFP-100	256 maccells, 5,000 gates, 164 I/O, 7ns	C	103.75
1725100	EPM7256BFC256-7N♠	FBGA-256	256 maccells, 5,000 gates, 164 I/O, 7ns	C	57.05
1725231	EPM7256SQC208-15♠	PQFP-208	256 maccells, 5,000 gates, 164 I/O, 7ns	C	90.75
1725257	EPM7256SRC208-7N♠	RQFP-208	256 maccells, 5,000 gates, 164 I/O, 7ns	C	233.39
1723462	EPM570GM100I5N♠	MBGA-100	440 maccells, 8,192 UFM bits, 160 I/O, 5.4ns	I	24.25
1723551	EPM570T100C5♠	TQFP-100	440 maccells, 8,192 UFM bits, 160 I/O, 5.4ns	C	17.25
1723569	EPM570T100I5♠	TQFP-100	440 maccells, 8,192 UFM bits, 160 I/O, 5.4ns	I	24.25
1725337	EPM7512AETC144-7N♠	TQFP-144	512 maccells, 10,000 gates, 212 I/O, 7ns	C	350.05
1725433	EPM9560RI240-20♠	RQFP-240	560 maccells, 12,000 gates, 216 I/O, 20ns	I	436.95
1722726	EPM1270F256C3N♠	FBGA-256	980 maccells, 8,192 UFM bits, 212 I/O, 6.2ns	C	73.15
1722814	EPM1270T144C4♠	TQFP-144	980 maccells, 8,192 UFM bits, 212 I/O, 6.2ns	C	41.25
1722831	EPM1270T144I5♠	TQFP-144	980 maccells, 8,192 UFM bits, 212 I/O, 6.2ns	I	41.25
1722890	EPM2210F324C5NRR♠	BGA-324	1,700 maccells, 8,192 UFM bits,272 I/O, 7ns	C	63.55

†C = 0° - 90°C I = -40°C - 105°C

ALTERA. FLEX FPGAs

Part No.	Product No.	Pkg.	Description	Price
1721432	EP2C20F256I8♠	BGA-256	Cyclone II 239,616 RAM bits, 4 PLL's, 315 I/O pins, I-temp	$66.39
1722558	EPF6016TC144-2N♠	TQFP-144	ACEX 16,000 gates, 5V, 204 I/O pins, C-temp	43.45
1720587	EP1K50QC208-3♠	PQFP-208	FLEX 50,000 gates, 40,960 RAM bits, 249 I/O pins, C-temp	29.19
1722312	EPF10K30RC240-4♠	RQFP-240	FLEX 30,00 gates, 12,288 RAM bits, 246 I/O pins, C-temp	181.25

FAIRCHILD SEMICONDUCTOR 74AC/ACT Series — NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
867827	74AC74SC♠	SOIC-14	Dual D-type pos. edge trig. flip-flop	✳	$.186	$.169
867510	74AC138PC♠	DIP-16	1-of-8 decoder demultiplexer	✳	.323	.294
867940	74ACT04SC♠	SOIC-14	Hex inverter	✳	.156	.142
868125	74ACT14SC♠	SOIC-14	Hex inverter w/ schmitt trigger input	✳	.229	.196
868281	74ACT32SC♠	SOIC-14	Quad 2-input OR gate	✳	.154	.14
868061	74ACT138SC♠	SOIC-16	1-of-8 decoder demultiplexer	✳	.382	.317
868248	74ACT245SC♠	SOIC-20	Octal bi-directional trans. w/ 3-st I/O	✳	.352	.32

ON Semiconductor® 74AC/ACT Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
795131	MC74ACT05D	SOIC-14	Hex inverter w/ open drain outputs	✳	$.175	$.157
966606	MC74AC245DWG	SOIC-20	Octal bi-directional trans w/ 3-st inputs/outputs	✳	.409	.368
795641	MC74ACT640NG	DIP-20	Octal 3-st inverting transceiver	2.05	1.73	1.56

TEXAS INSTRUMENTS 74AC/ACT Series — NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
1274708	CD74AC573E1	DIP-20	Octal transparent latch, 3-st non inverting	$.89	$.79	$.50
912077	SN74ACT04D♠	SOIC-14	Hex inverters	✳	.184	.172
896134	CD74ACT05M	SOIC-14	Hex inv w/ open drain outputs, 1-temp	.28	.269	.254
912350	SN74ACT244PW♠	TSSOP-20	Octal buffers/drivers w/ 3-st. outputs	✳	.217	.205
912544	SN74ACT8990FN♠	PLCC-44	Test bus ctrl. IEEE std. 1149.1 tap masters	46.79	43.50	40.98
831154	SN74ACT8997DW♠	SOIC-28	Scan-path link w/ 4-bit ID bus scan ctrl. (JTAG)	12.99	12.08	11.38
891595	74ACT11244DW	SOIC-24	Octal buffer/line driver w/ 3-st outputs	2.79	2.55	2.37

TEXAS INSTRUMENTS 74AHC Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
912739	SN74AHC125D♠	SOIC-14	Quad buffer gates w/ 3-st. outputs	✳	$.25	$.20
1384368	SN74AHC1G04DBVR@1♠	SOT-23/5	Single inverter gate, I-temp	✳	.127	.119
831509	SN74AHC1G125DBVT♠	SOT-23	Single bus buffer gate w/ 3-st. outputs	★	Call	Call
831621	SN74AHC595D♠	SOIC-16	8-bit shift registers w/ 3-st. output registers	✳	.362	.341
831402	SN74AHC16244DL♠	SSOP-48	16-bit buffers/drivers w/ 3-st. outputs	1.19	1.11	1.04

★ Please call or visit our website for minimum order quantity and pricing

TEXAS INSTRUMENTS 74AHCT Series — NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
913328	SN74AHCT02D♠	SOIC-14	Quad 2-input positive NOR gates	✳	$.135	$.126
913678	SN74AHCT1G08DBVR♠	SOT-23/5	Single 2-input positive AND gate, I-temp	✳	.108	.101
831699	SN74AHCT125D♠	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	✳	.184	.172
913707	SN74AHCT1G125DBVR♠	SOT-23/5	Single bus buffer w/ 3-st outputs, I-temp	✳	.098	.088
913782	SN74AHCT244PWR♠	TSSOP-20	Octal buffer/driver w/ 3-st outputs, I-temp	✳	.213	.191
832026	SN74AHCT541PW♠	TSSOP-20	Octal buffers/drivers w/ 3-st. outputs	✳	.295	.275
832051	SN74AHCT573DW♠	SOIC-20	Octal trans. D-type latches w/ 3-st. outputs	✳	.209	.195
913571	SN74AHCT16244DL♠	SSOP-48	16-bit buffers/drivers w/ 3-st. outputs	1.55	1.45	1.36

IDT 49FCT Series

Part No.	Product No.	Pkg.	Description	1	10	100
1699950	49FCT805ASO♠	SOIC-20	Fast CMOS buffer/clock driver	$4.45	$4.16	$3.88
1699677	49FCT3805APY♠	SOIC-20	3.3V CMOS buffer/clock driver	.79	.73	.69
1699714	49FCT3805AQ♠	QSOIC-20	3.3V CMOS buffer/clock driver	.61	.57	.56
1699757	49FCT3805AQI♠	QSOIC-20	3.3V CMOS buffer/clock driver I-temp	2.95	2.66	2.36
1699790	49FCT3805DQI♠	QSOIC-20	3.3V CMOS dual 1-to-5 clock dvr, I-temp	1.89	1.80	1.73

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

74FCT, 74F & 74HC/HCT Standard Logic

Additional Logic ICs are available online at www.Jameco.com/Semiconductors

IDT 74FCT Series

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
1608368	74FCT244ATQ ♠	QSOP-20	Octal buffer/line driver	$.71	$.66	$.60
1608392	74FCT244ATSO ♠	SOIC-20	Octal buffer/line driver	.70	.52	.39
1608536	74FCT245ATQ ♠	QSOP-20	Octal bi-directional transceiver	✳	.34	.31
1608561	74FCT245ATSO ♠	SOIC-20	Octal bi-directional transceiver	✳	.39	.35
1609361	74FCT3807APY ♠	SSOIC-20	3.3V CMOS 1-to-10 clock driver	.61	.58	.56
1609416	74FCT3807AQ ♠	QSOIC-20	3.3V CMOS 1-to-10 clock driver	.61	.58	.56
1606602	74FCT16244ATPA ♠	TSSOP-48	16-bit buffer/line driver	1.33	1.11	.89
1606637	74FCT16244ATPV ♠	SSOP-48	16-bit buffer/line driver	.68	.63	.61
1606661	74FCT16245ATPA ♠	TSSOP-48	16-bit bidirectional transceiver	1.33	1.11	.89
1606696	74FCT16245ATPV ♠	SSOP-48	16-bit bidirectional transceiver	.68	.63	.61
1609344	74FCT38075DCGI ♠	SOIC-8	3.3V CMOS 1-to-5 clock driver, I-temp.	3.95	3.65	3.42
1606215	74FCT162244ATPV ♠	SSOP-48	16-bit buffer/line driver	1.18	.99	.79
1606291	74FCT162245ATPV ♠	SSOP-48	16-bit bi-directional transceiver	1.02	.91	.70
1606506	74FCT162374ATPV ♠	SSOP-48	16-bit register, 3-st.	1.59	1.38	1.18
1607517	74FCT164245TPA ♠	TSSOP-48	16-bit bi-directional 3.3-5V translator	2.39	2.28	2.17
1607550	74FCT164245TPV ♠	SSOP-48	16-bit bi-directional 3.3-5V translator	2.39	2.28	2.17

Texas Instruments 74F Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
834902	SN74F00N ♠	DIP-14	Quad 2-input positive NAND gates	✳	$.221	$.206
834929	SN74F08D ♠	SOIC-14	Quad 2-input positive AND gates	✳	.196	.183
834945	SN74F109D ♠	SOIC-16	Dual J-K pos. edge-trig. F-F w/ clear & preset	✳	.221	.206
835091	SN74F240N1	DIP-20	Octal buffer/driver w/ 3-st outputs, C-temp	✳	.405	.378

Fairchild Semiconductor 74HC Series NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
871957	MM74HC00M ♠	SOIC-14	Quad 2-input NAND gate	✳	$.184	$.156
872095	MM74HC08M ♠	SOIC-14	Quad 2-input AND gate	✳	.184	.157
984151	MM74HC14MX_NL ♠	SOIC-14	Hex inverting Schmitt trigger	✳	.142	.129
872298	MM74HC14M ♠	SOIC-14	Hex inverting schmitt trigger	✳	.194	.166
873004	MM74HC74AM ♠	SOIC-14	Dual D-type flip-flop w/ preset & clear	✳	.202	.171
872141	MM74HC123AN	DIP-16	Dual retriggerable monostable multivib	.51	.41	.31
872183	MM74HC132M ♠	SOIC-14	Quad 2-input NAND schmitt trigger	✳	.216	.187
872255	MM74HC138M ♠	SOIC-16	3-to-8 line decoder	✳	.248	.226
872351	MM74HC154N ♠	DIP-24	4-to-16 line decoder	.95	.75	.57
786314	MM74HC154WM ♠	SOIC-24	4-to-16 line decoder	.58	.47	.35
872378	MM74HC165M ♠	SOIC-16	Parallel-in/serial out 8-bit shift reg.	✳	.273	.248
872511	MM74HC273N	DIP-20	Octal D-type flip-flop w/ clear	.53	.399	.30
872538	MM74HC273WM ♠	SOIC-20	Octal D-type flip-flop w/ clear	✳	.304	.256
872571	MM74HC373N ♠	DIP-20	3-st octal D-type latch	✳	.34	.309
872597	MM74HC373WM ♠	SOIC-20	3-st. octal D-type latch	✳	.304	.259
872845	MM74HC541WM ♠	SOIC-20	Octal 3-st. buffer	✳	.309	.28
872861	MM74HC573N ♠	DIP-20	3-st octal D-type latch	✳	.311	.283
872706	MM74HC4051M ♠	SOIC-16	8-ch analog multiplexer	✳	.382	.325

NXP / Philips 74HC Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
906291	74HC00D-T	SOIC-14	Quad 2-input NAND gate, I-temp	✳	$.117	$.109
906339	74HC00N ♠	DIP-14	Quad 2-input NAND gate, I-temp	✳	.158	.148
906371	74HC02D-T ♠	SOIC-14	Quad 2-input NOR gate	✳	.104	.094
906419	74HC02N ♠	DIP-14	Quad 2-input NOR gate	✳	.323	.291
906531	74HC04D-T	SOIC-14	Hex inverter	✳	.416	.328
906574	74HC04N ♠	DIP-14	Hex inverter	✳	.34	.24
906611	74HC08D-T	SOIC-14	Quad 2-input AND gate, I-temp	✳	.406	.222
907411	74HC14N ♠	DIP-14	Hex inverting schmitt trigger	✳	.357	.33
908799	74HC32D-T	SOIC-14	Quad 2-input OR gate, I-temp	✳	.117	.109
908852	74HC32N ♠	DIP-14	Quad 2-input OR gate	✳	.348	.323
911533	74HC74N ♠	DIP-14	Dual D-type flip-flop w/ set & reset pos edge trigg	✳	.325	.293
906945	74HC125D-T ♠	SOIC-14	Quad buffer/line driver 3-st	✳	.11	.10
907083	74HC132D ♠	SOIC-14	Quad 2-input NAND schmitt trigger	✳	.158	.148

NXP / Philips 74HC Series (Continued) NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
907163	74HC132N ♠	DIP-14	Quad 2-input NAND schmitt trigger	✳	$.287	$.23
907243	74HC138N ♠	DIP-16	3-to-8 line decoder/demux, inverting	✳	.355	.319
907286	74HC139D ♠	SOIC-16	Dual 2-to-4line decoder/demux.	✳	.176	.156
845759	74HC160N ♠	DIP-16	Presettable sync. BCD contr, asyn. Reset	✳	.367	.344
907753	74HC165D ♠	SOIC-16	8-bit parallel-in/serial-out shift reg	✳	.325	.277
845927	74HC165N	DIP-16	8-bit parallel-in/serial-out shift reg.	✳	.264	.247
908191	74HC244D-T ♠	SOIC-20	Octal buffer/line driver 3-st	✳	.155	.14
908220	74HC244N	DIP-20	Octal buffer/line driver 3-st	.65	.49	.368
910661	74HC541D ♠	SOIC-20	Octal buffer/line driver 3-st	.55	.41	.31
910750	74HC541N ♠	DIP-20	Octal buffer/line driver 3-st	✳	.368	.331
910821	74HC573D-T ♠	SOIC-20	Octal D-type transparent latch 3-st	✳	.185	.167
910864	74HC573N ♠	DIP-20	Octal D-type transparent latch 3-st, I-temp	✳	.289	.271
910995	74HC574N ♠	DIP-20	Octal D-type flip-flop pos edge trigg 3-st	.50	.37	.28
911103	74HC595D ♠	SOIC-16	8-bit shift reg 3-st	.59	.44	.333
911146	74HC595D-T ♠	SOIC-16	8-bit shift reg 3-st	✳	.39	.248
909548	74HC4040D ♠	SOIC-16	12-stage binary ripple counter	✳	.176	.161
909628	74HC4040N	DIP-16	12-stage binary ripple counter, I-temp	.53	.392	.294
909716	74HC4051D ♠	SOIC-16	8-ch analog mux/demux.	✳	.32	.297
909759	74HC4051D-T ♠	SOIC-16	8-ch analog mux/demux.	✳	.206	.186
909871	74HC4052D	SOIC-16	Dual channel analog mux/demux.	.86	.67	.63
909978	74HC4053D ♠	SOIC-16	Triple 2-ch analog mux/demux.	✳	.36	.325
910135	74HC4066D ♠	SOIC-14	Quad bilateral switches, I-temp	✳	.163	.152
907753	74HC4538D ♠	SOIC-16	Dual retrigg prec monostable multivibrator	✳	.325	.277

ON Semiconductor® 74HC/HCT Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
873303	MC74HC00AD ♠	SOIC-14	Quad 2-input NAND gate	★	Call	Call
969719	MC74HC00ADR2G ♠	SOIC-14	Quad 2-input NAND gate	✳	.176	.167
873338	MC74HC00AN	PDIP-14	Quad 2-input NAND gate	.31	.274	.223
970015	MC74HC04ADR2G ♠	SOIC-14	Hex inverter	✳	.176	.167
873506	MC74HC04AN	DIP-14	Hex inverter	✳	.246	.225
795739	MC74HC04ANG ♠	PDIP-14	Hex inverter	✳	.309	.263
970074	MC74HC08ADG ♠	SOIC-14	Quad 2-input AND gate	✳	.154	.134
875421	MC74HCT14AD ♠	SOIC-14	Hex schmitt trig invert. w/ LSTTL comp inputs	✳	.278	.245
972328	MC74HC14ADR2G ♠	SOIC-14	Hex schmitt trigger inverter	✳	.182	.173
873733	MC74HC138AD ♠	SOIC-16	1-of-8 decoder/demultiplexer	✳	.19	.167
795819	MC74HC138ANG ♠	PDIP-16	1-of-8 decoder/demultiplexer	✳	.299	.272
874189	MC74HC244AN ♠	PDIP-20	Octal 3-st non-invert buff/line driv/line rec.	.64	.60	.45
796011	MC74HC373ANG ♠	PDIP-20	Octal 3-st non-invert trans latch	.55	.451	.414
875000	MC74HC541AN	DIP-20	Octal 3-st non-inv buffer/line driv/line receiv	.56	.465	.43
875026	MC74HC573ADW ♠	SOIC-20	Octal 3-st noninverting transparent latch	.52	.47	.42
983596	MC74HC595ADG ♠	SOIC-16	8-bit serial-input/serial or parallel output shft reg	✳	.295	.276
875237	MC74HC595AN	DIP-16	8-bit serial input/parall output shift reg w/ 3-st.	✳	.305	.275
796184	MC74HC4053ADG ♠	SOIC-16	Analog multiplexers/demultiplexers	.61	.495	.446
874912	MC74HC4538AD ♠	SOIC-16	Dual prec. monostable multivibrator	✳	.322	.296
874921	MC74HC4538AN ♠	PDIP-16	Dual prec. monostable multivibrator	✳	.303	.288

★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments 74HC Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
835201	SN74HC00D	SOIC-14	Quad 2-input positive NAND gates	$.35	$.225	$.214
1318977	CD74HC00EE4	DIP-14	Hi spd CMOS logic quad 2-input NAND gate	.63	.47	.35
835219	SN74HC00N	DIP-14	Quad 2-input positive NAND gates	.52	.416	.312
914591	SN74HC03D ♠	SOIC-14	Quad 2-input pos. NAND w/ open-drain outputs	✳	.135	.126
914646	SN74HC04DR ♠	SOIC-14	Hex inverter, I-temp	✳	.146	.117
835235	SN74HC04N	DIP-14	Hex inverters	.41	.36	.31
914671	SN74HC05D ♠	SOIC-14	Hex inverters w/ open-drain outputs	✳	.135	.126
914697	SN74HC05N	DIP-14	Hex inverters w/ open-drain outputs	.49	.396	.297
250982	SN74HC07N ⊕	DIP-14	Hex Inverter	.37	.20	.147
896741	CD74HC08E	DIP-14	CMOS logic quad 2-input AND gate, I-temp	.52	.412	.309
835278	SN74HC10N	DIP-14	Triple 3-input positive NAND gates	.49	.396	.356

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

74HC & 74HCT Standard Logic

Color Code Legend: New Sale Lower$ QtySave

Additional Logic ICs are available online at www.Jameco.com/Semiconductors

Texas Instruments 74HC Series (Continued) NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
1320938	CD74HC14E♥♠	DIP-14	CMOS logic hex inverting schmitt trig., I-temp	$.63	$.47	$.353
897081	CD74HC14M♥♠	SOIC-14	CMOS logic hex inverting schmitt trig., I-temp	.53	.47	.353
835340	SN74HC14N♥	DIP-14	Hex schmitt-trigger inverters	.41	.35	.29
915403	SN74HC20D♥	SOIC-14	Dual 4-input positive NAND gates	.23	.221	.166
915438	SN74HC20N♥	DIP-14	Dual 4-input positive NAND gates	.49	.392	.333
835454	SN74HC21D♥♠	SOIC-14	Dual 4-input positive AND gates	✳	.135	.126
915841	SN74HC27DR♥	SOIC-14	Triple 3-input positive OR gate	.29	.274	.206
915876	SN74HC27N♥	DIP-14	Triple 3-input positive NOR gates	.49	.396	.297
814670	SN74HC32D♥♠	SOIC-14	Quad 2-input positive OR gates	✳	.135	.126
915905	SN74HC32DR♥♠	SOIC-14	Quad 2-input positve OR gates, I-temp	✳	.13	.117
916220	SN74HC42D♥♠	SOIC-16	4-to-10 line decoders	2.35	2.09	1.89
814856	SN74HC42N♥♠	DIP-16	4-to-10 line decoders	.65	.58	.546
898210	CD74HC74E♥	DIP-14	Dual D F-F w/ set/reset pos. edge trigg., I-temp	.52	.412	.309
898244	CD74HC74M♥♠	SOIC-14	Dual D F-F w/set&reset pos edge trig, I-temp	✳	.412	.31
815322	SN74HC74N♥	DIP-14	Dual D-type pos. edge-trig. F-F w/ clear & preset	.20	.181	.136
820682	CD74HC123M1♥♠	SOIC-16	CMOS logic dual retrig monost. multivibr., I-temp	.53	.47	.27
914785	SN74HC125DR♥♠	SOIC-14	Quad bus buffer gates w/ 3-st outputs, I-temp	✳	.156	.14
914814	SN74HC126D♥	SOIC-14	Quad bus buffer gates w/ 3-st. outputs...	✳	.157	.148
820711	CD74HC132E♥	DIP-14	CMOS logic quad 2-input NAND schmitt trig, I-temp	.71	.53	.40
835307	SN74HC132N♥♠	DIP-14	Quad pos. NAND gates w/ schmitt-trigger inputs	✳	.196	.183
835315	SN74HC138N♥	DIP-16	3-to-8 line decoders/demultiplexers	.47	.356	.32
914953	SN74HC148D♥♠	SOIC-16	8-to-3 line priority encoders	✳	.193	.182
914988	SN74HC148N♥	DIP-16	8-to-3 line priority encoders	.54	.431	.323
915032	SN74HC151D♥	SOIC-16	8-to-1 line data selectors/multiplexers	.54	.43	.327
915067	SN74HC153D♥♠	SOIC-16	Dual 4-to-1 line data selector/multiplexers	✳	.193	.182
835374	SN74HC153N♥♠	DIP-16	Dual 4-to-1 line data selector/multiplexers	✳	.216	.202
835382	SN74HC157N♥♠	DIP-16	Quad 2-to-1 line data selector/multiplexers	✳	.205	.193
835403	SN74HC161N♥♠	DIP-16	4-bit synchronous binary counters	✳	.212	.20
915180	SN74HC165DR♥♠	SOIC-16	8-bit parallel load shift register, I-temp	✳	.156	.14
915219	SN74HC166D♥♠	SOIC-16	8-bit parallel-load shift registers	✳	.196	.183
915278	SN74HC175D♥♠	SOIC-16	Quad D-type F-F w/ clear	✳	.193	.182
915315	SN74HC175N♥	DIP-16	Quad D-type F-F w/ clear	.47	.35	.267
915340	SN74HC191D♥♠	SOIC-16	4-bit synchronous up/down binary counters	✳	.221	.206
915374	SN74HC191N♥♠	DIP-16	4-bit synchronous up/down binary counters	✳	.241	.227
835446	SN74HC193N♥	DIP-16	4-bit synch. up/down counters (dual clock w/ clear)	.51	.392	.353
897364	CD74HC238E♥	DIP-16	CMOS logic 3-to-8 line decoder/demux, I-temp	.33	.27	.253
915497	SN74HC241DW♥♠	SOIC-20	Octal buffers & line drivers w/ 3-st. outputs	✳	.265	.25
915526	SN74HC241N♥♠	DIP-20	Octal buffers & line drivers w/ 3-st. outputs	✳	.314	.296
1004863	SN74HC244DWR1♥♠	SOIC-20	Octal buffer & line driv. w/ 3-st outputs, I-temp	✳	.218	.196
835462	SN74HC244N♥	DIP-20	Octal buffers & line drivers w/ 3-st. outputs	.59	.44	.40
915614	SN74HC245DWR♥♠	SOIC-20	Quad bus transceivers w/ 3-st outputs, I-temp	✳	.212	.191
915551	SN74HC244PWR♥	TSSOP-20	Octal buffer & line driver w/ 3-st outputs	.59	.441	.331
835471	SN74HC245N♥	DIP-20	Octal bus transceivers w/ 3-st. outputs	.59	.475	.367
915649	SN74HC251D♥♠	SOIC-16	Data selector/multiplexer w/ 3-st. outputs	✳	.205	.193
915665	SN74HC251N♥♠	DIP-16	Data selector/multiplexer w/ 3-st. outputs	✳	.229	.216
915690	SN74HC257D♥♠	SOIC-16	Quad 2-to-1 line data selectors/multi. w/ 3-st. outputs	✳	.205	.193
915729	SN74HC257N♥♠	DIP-16	Quad 2-to-1 line data selectors/multi. w/ 3-st. outputs	✳	.241	.227
915753	SN74HC259D♥	SOIC-16	8-bit addressable latches	.49	.396	.297
915817	SN74HC259N♥	DIP-16	8-bit addressable latches	.54	.43	.327
1005612	SN74HC273DW1♥♠	SOIC-20	Octal D-type flip-flops w/ clear, I-temp	.54	.43	.32
835489	SN74HC273N♥	DIP-20	Octal D-type flip-flops w/ clear	.47	.353	.30
915930	SN74HC365D♥♠	SOIC-16	Hex buffers & line drivers w/ 3-st	✳	.29	.273
821714	CD74HC366E♥	DIP-16	CMOS logic hex buffer/line drv. 3-st. non-inv, I-temp	.63	.55	.47
915964	SN74HC367N♥♠	DIP-16	Hex buffers & line drivers w/ 3-st	✳	.29	.273
251475	SN74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. out H.O. (TI)	.54	.41	.308
916115	SN74HC377DW♥♠	SOIC-20	Octal D-type flip-flops w/ clock enable	✳	.216	.202
897743	CD74HC393E♥	DIP-14	CMOS logic dual 4-stage binary counter, I-temp	.94	.71	.54
814776	SN74HC393N♥	DIP-14	Dual 4-bit binary counters	.47	.396	.297
814881	SN74HC540N♥♠	DIP-20	Octal buffers/line drivers w/ 3-st	✳	.314	.296
916271	SN74HC541DWR♥♠	SOIC-20	Octal buffer & line driv. w/ 3-st outputs, I-temp	✳	.198	.178
814901	SN74HC541N♥♠	DIP-20	Octal buffers/line drivers w/ 3-st	✳	.241	.227
814961	SN74HC573ADW♥♠	SOIC-20	Octal transparent D-type latches w/ 3-st	✳	.246	.229
814995	SN74HC573AN♥	DIP-20	Octal transparent D-type latches w/ 3-st	.62	.47	.356

Texas Instruments 74HC Series (Continued) NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
815058	SN74HC594D♥♠	SOIC-16	8-bit shift registers w/ output reg.	$.55	$.483	$.455
815103	SN74HC595D♥♠	SOIC-16	8-bit shift registers w/ 3-st. output reg.	✳	.314	.296
815138	SN74HC595N♥	DIP-16	8-bit shift registers w/ 3-st. output reg.	.58	.47	.40
897786	CD74HC4020M♥♠	SOIC-16	CMOS logic 14-stage binary counter, I-temp	✳	.245	.23
814821	SN74HC4040N♥♠	DIP-16	12-bit asynchronous binary counters	✳	.241	.227
822063	CD74HC4060E♥♠	DIP-16	CMOS logic 14-st binary counter w/ oscillator	.52	.388	.291
897971	CD74HC4075M♥♠	SOIC-14	CMOS logic triple 3-input OR gate, I-temp	✳	.209	.196
822151	CD74HC4094E♥	DIP-16	CMOS logic 8-st shift&store bus reg. 3-st., I-temp	.462	.439	.417
822303	CD74HC4511E♥✪	DIP-16	BCD-to-7 segment latch/decoder/driver	.78	.59	.44

✪ Blue Part No. = Limited Quantity Available

74HC Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
45161	74HC00N	DIP-14	Quad 2-input NAND gate	$.27	$.228	$.168
45188	74HC02N	DIP-14	Quad 2-input NOR gate	.32	.24	.187
45209	74HC04N⊕	DIP-14	Hex inverter	.29	.203	.159
45225	74HC08N	DIP-14	Quad 2-input AND gate	.24	.197	.148
45233	74HC10N	DIP-14	Triple 3-input NAND gate	.39	.284	.215
45364	74HC14N⊕	DIP-14	Hex schmitt trigger inverter	.27	.228	.204
45794	74HC32N	DIP-14	Quad 2-input OR gate	.29	.252	.18
46130	74HC74N	DIP-14	Dual D-type pos. edge trig. F-F w/ clear & preset	.44	.352	.267
46181	74HC86N	DIP-14	Quad 2-input Exclusive OR gate	.29	.183	.164
45305	74HC125N	DIP-14	Quad bus buffer w/ 3-state outputs	.41	.356	.267
45330	74HC138N	DIP-16	3-to-8 decoder/demultiplexer	.38	.30	.225
45401	74HC154N	DIP-24	4-to-16 line decoder	.79	.71	.54
45487	74HC164N⊕	DIP-14	8-bit parallel out serial shift register	.39	.302	.229
45495	74HC165N	DIP-16	8-bit parallel load shift register	.32	.28	.25
45541	74HC192	DIP-16	Presettable synch. 4-bit up/down counter	1.59	1.45	1.29
45655	74HC244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.45	.39	.35
45671	74HC245N	DIP-20	Octal bus trans. w/ 3-state output	.45	.38	.29
45831	74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. out H.O.	.45	.39	.35
45858	74HC374N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. output	.39	.344	.265
109760	74HC540N	DIP-20	Octal buffer/line driver w/ 3-st. output	.37	.31	.277
46050	74HC541N	DIP-20	Octal buffer/line driver w/ 3-st. output NOR gate enabled	.59	.486	.365
46076	74HC573N	DIP-20	Octal transparent D-type latches w/ 3-st. output	.38	.312	.264
46084	74HC574N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. out. flow thru	.40	.314	.236
46105	74HC595N⊕	DIP-16	8-bit shift reg. w/ 3-st. output register	.62	.44	.39
251643	SN74HC595N⊕	DIP-16	8-bit shift reg. w/ 3-st. output register	.65	.55	.413
46113	74HC688N	DIP-20	8-bit indentity comparators	.45	.378	.297
45891	74HC4017	DIP-16	Decade ctr/div w/ decoded output	.50	.46	.428
88102	74HC4051N	DIP-16	8-channel analog multiplexer	.40	.34	.255
272129	74HC4053N	DIP-16	Triple 2-channel analog multiplexer	.46	.369	.276

NXP/PHILIPS 74HCT Series NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
911699	74HCT00N♥♠	DIP-14	Quad 2-input NAND gate, I-temp	✳	$.325	$.293
911736	74HCT02N♥♠	DIP-14	Quad 2-input NOR gate	✳	.325	.293
911779	74HCT04D-T♥♠	SOIC-14	Hex inverter, I-temp	✳	.104	.093
911824	74HCT04N♥♠	DIP-14	Hex inverter, I-temp	.50	.41	.28
911859	74HCT08N♥♠	DIP-14	Quad 2-input AND gate, I-temp	✳	.335	.268
912296	74HCT14D-T♥	SOIC-14	Hex inverting schmitt trigger, I-temp	.41	.328	.231
912333	74HCT14N♥♠	DIP-14	Hex inverting schmitt trigger, I-temp	.50	.41	.28
913299	74HCT32N♥♠	DIP-14	Quad 2-input OR gate, I-temp	✳	.358	.295
912253	74HCT139N♥♠	DIP-16	Dual 2-to-4 line decoder/DEMUX	✳	.158	.148
912851	74HCT238N♥	DIP-16	3-to-8 line decoder/DEMUX	✳	.332	.312
912974	74HCT244N♥♠	DIP-20	Octal buffer/line driver 3-st., I-temp	✳	.392	.352
913011	74HCT245D-T♥♠	SOIC-20	Octal bus transceiver 3-st., I-temp	✳	.159	.143
913053	74HCT245N♥♠	DIP-20	Octal bus transceiver, 3-st, I-temp	✳	.289	.271
847746	74HCT367D♥	SOIC-16	Hex buffer/line driver, 3-st	✳	.289	.271
913416	74HCT373N♥♠	DIP-20	Octal D-type transparent latch 3-st., I-temp	✳	.40	.38
913475	74HCT374N♥♠	DIP-20	Octal D-type flip-flop pos edge trigger 3-st	✳	.38	.359
914048	74HCT573N♥♠	DIP-20	Octal D-type transparent latch 3-st, I-temp	.50	.373	.325
914128	74HCT574N♥♠	DIP-20	Octal D-type flip-flop pos edge trigg, 3-st	✳	.298	.279

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♥ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

74HCT, 74LCX, 74LV/LVC, 74LVX & 74VHC Series

Additional Logic ICs are available online at www.Jameco.com/Semiconductors

FAIRCHILD 74HCT Series

Part No.	Product No.	Pkg.	Description	1	10	100
786541	MM74HCT08N	DIP-14	Quad 2-input AND gate	$.37	$.317	$.267

ON Semiconductor® 74HCT Series

Part No.	Product No.	Pkg.	Description	1	10	100
984038	MC74HCT244ADW2RG	SOIC-20	Octal 3-st non-inverting buffer/line driver	$.46	$.41	$.37

TEXAS INSTRUMENTS 74HCT Series NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
815373	SN74HCT00D	SOIC-14	Quad 2-input positive NAND gates	✳	$.135	$.126
815402	SN74HCT00N	DIP-14	Quad 2-input positive NAND gates	✳	.169	.159
815437	SN74HCT04N	DIP-14	Hex inverters	✳	.157	.148
898480	CD74HCT14E	DIP-14	CMOS logic hex inverting schmitt trigg., I-temp	✳	.184	.173
899079	CD74HCT32E	DIP-14	CMOS logic quad 2-input OR gate, I-temp	.52	.412	.309
898404	CD74HCT138E	DIP-16	CMOS logic 3-to-8 line decoder/demux, I-temp	.64	.466	.408
815461	SN74HCT244DW	SOIC-20	Octal buffers & line drivers w/ 3-st. outputs	✳	.209	.195
898949	CD74HCT245E	DIP-20	CMOS logic octal bus trans, 3-st non-inverting, I-temp	.94	.71	.529
815496	SN74HCT245N	DIP-20	Octal bus transceivers w/ 3-st. outputs	.63	.47	.40
815550	SN74HCT373N	DIP-20	Octal transparent D-type latches w/ 3-st. outputs	✳	.29	.273
815576	SN74HCT374N	DIP-20	Octal edge-trig. D-type F-F w/ 3-st. outputs	.59	.47	.40
815592	SN74HCT574N	DIP-20	Octal edge-trig. D-type F-F w/ 3-st. outputs	.62	.461	.353
1332867	CD74HCT640EE4	DIP-20	CMOS logic octal 3-st bus transceiver, inv.	.86	.73	.55
916828	SN74HCT652NT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	1.29	1.20	1.13

74HCT Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44898	74HCT04N	DIP-14	Quad 2-input NOR gate	$.32	$.269	$.202
44935	74HCT14N⊕	DIP-14	Hex schmitt trigger inverter	.43	.35	.268
45137	74HCT74N	DIP-14	Dual D-type pos. edge trig F-F w/ clear & preset	.39	.273	.205
44927	74HCT138N⊕	DIP-16	3-to-8 decoder/demultiplexer	.33	.282	.212
63773	74HCT139N	DIP-16	2-to-4 decoder/demultiplexer	.36	.32	.249
45022	74HCT244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.31	.28	.25
45031	74HCT245N	DIP-20	Octal bus trans. w/ 3-state output	.65	.49	.368
45090	74HCT573N	DIP-20	Octal transparent D-type latch w/ 3-st. output	.38	.376	.282

FAIRCHILD 74LCX Series (3.3V) NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
869591	74LCX74MTC[2]	TSSOP-14	Dual D-type pos. edge trig. flip-flop	$.18	$.119	$.099
869056	74LCX125M[2,3]	SOIC-14	Quad buffer	✳	.18	.137
869081	74LCX125MTC[1,2]	TSSOP-14	Quad buffer with 3-st.	✳	.18	.146
869312	74LCX16245MTD[1,3]	TSSOP-48	16-bit bidirectional transceiver	.70	.57	.444
869427	74LCX245MTC[1,3]	TSSOP-20	Bidirectional transceiver	✳	.18	.15

1 5V tolerant inputs and outputs **2** non-inverting **3** 3-state outputs, non-inverting

ON Semiconductor® 74LCX Series

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
796723	MC74LCX04DTG[1]	TSSOP-14	Hex inverter	✳	$.245	$.221
796862	MC74LCX16373DTG[2,3]	TSSOP-48	16-bit transparent latch	1.49	1.35	1.20
796889	MC74LCX16374DT[2,3]	TSSOP-48	16-bit D-type flip-flops	1.21	.96	.72

1 with 5V tolerant inputs **2** with 5V tolerant inputs/outputs **3** 3-state, non-inverting

IDT 74LVC Series

Part No.	Product No.	Pkg.	Description	1	10	100
1611006	74LVC16245APA	TSSOP-48	3.3V CMOS 16-bit bus trans. w/ 3-st output, 5V input	$.68	$.63	$.61

NXP/PHILIPS 74LVC Series NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
914603	74LVC14AD-T	SOIC-14	Hex inverting schmitt trigger w/ 5V tolerant input	.29	$.26	$.223
914777	74LVC244APW	TSSOP-20	Octal buffer/line drvr w/ 5V tolerant input, 3-st., I-temp	✳	.176	.165

TEXAS INSTRUMENTS 74ALV/LV/LVC/LVTH Series NEW

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
914304	SN74ALVC244PW	TSSOP-20	Octal buffer/drvr w/ 3-st outputs, I-temp	✳	$.344	$.322
816755	SN74LV00AD	SOIC-14	Quad 2-input positive NAND gates	✳	.277	.208
917417	SN74LVC00AD	SOIC-14	Quad 2-input pos NAND gate, I-temp	✳	.147	.138
917097	SN74LV04AD	SOIC-14	Hex inverter, I-temp	✳	.147	.137
918276	SN74LVC1G07DBVR	SOT-23/5	Sngl buffer/drvr w/ open drain outputs, I-temp	✳	.122	.115
917231	SN74LV14AD	SOIC-14	Hex schmitt trigger inverters	✳	.172	.16
818849	SN74LVC32AD1	SOIC-14	Quad 2-input positive OR gate, I-temp	✳	.147	.138
917185	SN74LV125AD	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	✳	.196	.183
917927	SN74LVC125APWR	TSSOP-14	Quad bus buffer gate w/ 3-st output, I-temp	✳	.184	.173
757847	SN74LVTH125D	SOIC-14	3.3V ABT quad bus buffer w/ 3-st output, I-temp	★	Call	Call
917214	SN74LV138AD	SOIC-16	3-to-8 line decoder/demultiplexer	✳	.246	.229
917986	SN74LVC138AD	SOIC-16	3-to-8 line decoder/demultiplexer, I-temp	✳	.221	.207
917329	SN74LV244ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	✳	.27	.252
917572	SN74LVC04AD	SOIC-14	Hex inverter	✳	.37	.34
1043715	SN74LVC1G04DBVR	SOT-23	Single inverter gate	✳	.098	.088
918241	SN74LVC1G04DCKR	SC70	Single inverter gate	✳	.111	.10
817969	SN74LVC08AD	SOIC-14	Quad 2-input positive AND gates	✳	.147	.138
1029171	SN74LVC08APWR	TSSOP-14	Quad 2-input positive AND gates	✳	.147	.132
756490	SN74LVC1G08DBVR	SOT-23	Single 2-input positive AND gates	✳	.098	.088
756545	SN74LVC1G08DCKR	SC70	Single 2-input positive AND gates	✳	.108	.101
918031	SN74LVC14APWR	TSSOP-14	Hex schmitt trigger inverter	✳	.143	.128
1044161	SN74LVC1G14DBVR	SOT-23	Single schmitt trigger inverter	✳	.098	.088
756668	SN74LVC1G14DCKR	SC70	Single schmitt trigger inverter	✳	.098	.088
756684	SN74LVC1G17DBVR	SOT-23	Single schmitt trigger buffer	✳	.102	.092
757337	SN74LVC32APWR	TSSOP-14	Quad 2-input positive OR gates	✳	.147	.128
1046748	SN74LVC2T45DCTR	SMB	Dual bit supply bus trans. w/ config volt trans, 3-st	✳	.345	.31
757572	SN74LVC74AD	SOIC-14	Dual pos edge trigg D-type F-F w/ clear & preset	✳	.382	.344
757599	SN74LVC74APWR	TSSOP-14	Dual pos edge trigg D-type F-F w/ clear & preset	✳	.147	.132
756588	SN74LVC1G125DBVR	SOT-23	Single bus buffer gate w/ 3-st outputs	✳	.111	.10
756609	SN74LVC1G125DCKR	SC70	Single bus buffer gate w/ 3-st outputs	✳	.111	.10
756975	SN74LVC244APW	TSSOP-20	Octal buffer/driver w/ 3-st outputs	✳	.323	.291
757396	SN74LVC4245ADW	SOIC-24	Octal bus transc. & 3.3-5.5V shiftr w/ 3-st outputs	.88	.74	.59
757046	SN74LVC245APW	TSSOP-20	Octal bus transceiver w/ 3-st outputs	.58	.44	.33
757492	SN74LVC541APW	TSSOP-20	Octal buffer/driver w/ 3-st output, I-temp	✳	.295	.276
757513	SN74LVC541APWR	TSSOP-20	Octal buffer/driver w/ 3-st outputs	✳	.229	.207
918153	SN74LVC16245ADGGR	TSSOP-48	16-bit bus transceiver w/ 3-st outputs	★	Call	Call
918188	SN74LVC16245ADL	SSOP-48	16-bit bus transceiver w/ 3-st outputs	.90	.81	.73

★ Please call or visit our website for minimum order quantity and pricing

FAIRCHILD 74LVX (3.3V) Series

Part No.	Product No.	Pkg.	Description	1	10	100
869718	74LVX3245MTC	TSSOP-24	8-bit dual sup translating trans, w/ 3-st	$1.13	$.94	$.75

ON Semiconductor® 74LVX Series

Part No.	Product No.	Pkg.	Description	1	10	100
797064	MC74LVX4245DTG[†]	TSSOP-24	Dual supply octal translating trans	$1.19	$1.12	$.90

† 3-state outputs

FAIRCHILD 74VHC Series

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
869873	74VHC14M	SOIC-14	Hex schmitt inverter	✳	$.176	$.153

ON Semiconductor® 74VHC Series

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
797187	MC74VHC14D	SOIC-14	Hex schmitt inverter	✳	$.233	$.167
797161	MC74VHC138D	SOIC-16	3-to-8 line decoder	.60	.54	.363

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: New Sale Lower$ QtySave

Additional Logic ICs are available online at www.Jameco.com/Semiconductors

Texas Instruments 74ALS Series

Part No.	Product No.	Pkg.	Description	1	10	100
832675	SN74ALS151D	SOIC-16	1-of-8 data selector/multiplexers	$.88	$.74	$.56
832780	SN74ALS163BD♠	SOIC-16	Synch. 4-bit decade/binary counter	1.14	.97	.85
832974	SN74ALS240ADW♠	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	.77	.61	.54
833432	SN74ALS645A-1DW♠	SOIC-20	Octal bus trans. w/ 3-st. outputs	2.89	2.32	2.24
833635	SN74ALS874BDW♠	SOIC-24	Dual 4-bit D-type edge-triggered F-F	3.15	2.92	2.75
971106	SN74ALS1035NE4	DIP-14	Hex non-inverting buffers w/ open collector outputs	1.00	.96	.91

Texas Instruments 74LS Series

NEW

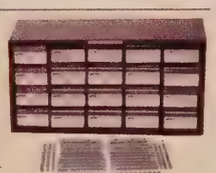
✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
283725	SN74LS00N	DIP-14	Quad 2-input NAND gate	$.48	$.408	$.306
283741	SN74LS02N⊕	DIP-14	Quad 2-input NOR gate	.48	.41	.30
815681	SN74LS03N♠	DIP-14	Quad 2-input pos. AND gates w/ open-collector	.82	.71	.53
283792	SN74LS04N	DIP-14	Hex inverter	.48	.408	.306
916941	SN74LS05DR	SOIC-14	Hex inverter w/ open collector outputs	.47	.40	.30
1015061	SN74LS05N1♠	DIP-14	Hex inverter w/ O.C. outputs, C-temp ✳	✳	.41	.37
295401	SN74LS08N	DIP-14	Quad 2-input AND gate	.47	.368	.312
295460	SN74LS14N	DIP-14	Hex inverter schmitt trigger	.41	.353	.272
816149	SN74LS30N♠	DIP-14	8-input positive NAND gates	✳	.35	.26
295515	SN74LS32N⊕	DIP-14	Quad 2-input OR gate	.45	.386	.289
816376	SN74LS38D♠	SOIC-14	Quad 2-input pos. NAND buffer w/ open-collectr	.85	.81	.65
917062	SN74LS47D	SOIC-16	BCD-to-7 segment decoders/drivers	1.89	1.75	1.43
295582	SN74LS47N⊕	DIP-16	BCD-to-7 segment decoder/driver (O.C.)	.92	.69	.61
816536	SN74LS51N	DIP-14	AND-OR invert gates	1.05	1.00	.79
295726	SN74LS74AN⊕	DIP-14	Dual D flip-flop	.51	.386	.289
295742	SN74LS85N	DIP-16	4-bit magnitude comparator	1.04	.88	.66
1020943	SN74LS86AN1♠	DIP-14	Quad 2-input exclusive OR gate, C-temp ✳	✳	.38	.342
295751	SN74LS86N⊕	DIP-14	Quad EXCLUSIVE-OR gate	.45	.386	.287
295769	SN74LS90N	DIP-14	Decade counter	1.55	1.25	.94
295822	SN74LS93N	DIP-14	4-bit binary counter	1.55	1.25	.94
815736	SN74LS107AN♠	DIP-14	Dual J-K flip-flops w/ clear	1.05	1.00	.94
300880	SN74LS123N	DIP-16	Dual mono. multivibrator w/ clear	.71	.54	.405
301233	SN74LS138N⊕	DIP-16	3-to-8 decoder/demultiplexer	.62	.53	.40
917011	SN74LS156D♠	SOIC-16	Dual 2-to-4 line decoders/demultiplexers	.86	.76	.65
815816	SN74LS156N	DIP-16	Dual 2-to-4 line decoders/demultiplexers	.59	.531	.50
917038	SN74LS158N	DIP-16	Quad 2-to-1 line data selectors/multiplexers	.67	.57	.428
1016979	SN74LS174N1	DIP-16	Hex D-type flip-flops w/ clear, C-temp	.90	.68	.51
301831	SN74LS193N	DIP-16	Binary up/down counter w/ clear	.79	.67	.53
301858	SN74LS194N⊕	DIP-16	4-bit bi-directional shift register	1.23	1.04	.79
815921	SN74LS243N♠	DIP-14	Quad bus transceivers	3.49	3.05	2.21
1017568	SN74LS244DW1	SOIC-20	Octl buffer & line drvr w/ 3-st outputs, C-temp	.75	.65	.48
308312	SN74LS244N	DIP-20	Octal driver tri-state	.75	.65	.487
1017664	SN74LS245DW1	SOIC-20	Octal bus transvr w/ 3-st outputs, C-temp	.75	.65	.48
308321	SN74LS245N⊕	DIP-20	Octal bus transceiver tri-state	.85	.65	.358
308460	SN74LS373N	DIP-20	Octal D flip-flop tri-state	.78	.66	.495
308478	SN74LS374N⊕	DIP-20	Octal D flip-flop edge-trig. tri-state	.78	.59	.44
816288	SN74LS375N	DIP-16	4-bit bistable latches	.75	.70	.66
816421	SN74LS390N♠	DIP-16	Dual 4-bit decade & binary counters	1.22	1.01	.82
1019504	SN74LS465DWE4	SOIC-20	Octal buffers w/ 3-st outputs, C-temp	5.05	4.80	4.50
816561	SN74LS624N	DIP-14	Voltage controlled oscillator, C-temp	2.55	2.40	2.04
816641	SN74LS652DW	SOIC-24	Octal bus transceivers & registers	8.99	7.85	5.89
816675	SN74LS670N♠	DIP-16	4-by-4 register files w/ 3-st. outputs	1.95	1.84	1.47
1020724	SN74LS688N1♠	DIP-20	8-bit magnitude/identity comparator ★	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

74LS Series IC Kit

SAVE $76



Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 138 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961	420 pcs. 74LS IC kit	6.7	$135.55	$123.95
130391	Refill for 84961 (420 pcs.)	2.0	116.65	109.95

74LS Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
46252	74LS00N⊕ **	DIP-14	Quad 2-input NAND gate	$.41	$.349	$.24
46287	74LS02N**	DIP-14	Quad 2-input NOR gate	.45	.41	.34
46316	74LS04N⊕ **	DIP-14	Hex inverter	.41	.26	.23
46341	74LS05N*	DIP-14	Hex inverter (O.C.)	.41	.35	.265
46359	74LS06N⊕	DIP-14	Hex inverter buffer/driver (O.C.)	.74	.62	.50
46367	74LS07N⊕	DIP-14	Hex buffer/driver (O.C. hi-voltage)	.64	.57	.49
46375	74LS08N**	DIP-14	Quad 2-input AND gate	.37	.307	.23
46391	74LS09N	DIP-14	Quad 2-input AND gate (O.C.)	.46	.349	.265
46404	74LS10N*	DIP-14	Triple 3-input NAND gate	.46	.30	.276
46439	74LS11N*	DIP-14	Triple 3-input AND gate	.42	.312	.264
46640	74LS14N*	DIP-14	Hex inverter schmitt trigger	.40	.349	.265
47095	74LS20N*	DIP-14	Dual 4-input NAND gate	.53	.38	.346
47108	74LS21N	DIP-14	Dual 4-input AND gate	.32	.269	.202
47378	74LS27N	DIP-14	Triple 3-input NOR gate	.28	.23	.18
47458	74LS30N*	DIP-14	8-input NAND gate	.28	.238	.179
47466	74LS32N⊕ **	DIP-14	Quad 2-input OR gate	.35	.312	.246
47773	74LS42N	DIP-14	BCD-to-decimal decoder/driver	1.01	.86	.65
47790	74LS47N⊕ *	DIP-16	BCD-to-7 segment decoder/driver (O.C.)	.94	.68	.59
47811	74LS48N	DIP-16	BCD-to-7 segment decoder/driver	4.99	4.24	3.18
47992	74LS73N⊕ *	DIP-14	Dual JK flip-flop w/ clear, center VCG/GND	1.03	.84	.64
48004	74LS74N**	DIP-14	Dual D flip-flop	.36	.25	.22
48021	74LS75N*	DIP-16	4-bit bi-stable latch	.86	.73	.66
48039	74LS76N	DIP-16	Dual JK flip-flop with preset & clear	.83	.68	.61
48063	74LS83N	DIP-16	4-bit binary full adder	1.95	1.71	1.54
48071	74LS85N*	DIP-16	4-bit magnitude comparator	.42	.382	.345
48098	74LS86N⊕ *	DIP-14	Quad EXCLUSIVE-OR gate	.37	.30	.225
48119	74LS90N*	DIP-14	Decade counter	.93	.81	.69
48143	74LS92N	DIP-14	Divide-by-12 counter	1.09	.93	.69
48151	74LS93N*	DIP-14	4-bit binary counter	.89	.79	.70
48178	74LS95N	DIP-14	4-bit parallel-access shift register	1.75	1.59	1.45
46412	74LS107N	DIP-14	Dual JK flip-flop with clear	.87	.62	.432
46421	74LS109N	DIP-16	Dual JK pos. edge-trig. flip-flop	.73	.56	.42
46447	74LS112N	DIP-16	Dual JK neg. edge-trig. flip-flop	.39	.299	.227
46471	74LS122N	DIP-14	Retrig. mono. multivibrator comm. CLK	.56	.42	.324
46480	74LS123N*	DIP-16	Dual mono. multivibrator with clear	.37	.319	.239
46501	74LS125N*	DIP-14	Quad bus buffer neg. enable tri-state	.36	.31	.233
46527	74LS126N	DIP-14	Quad bus buffer tri-state	.59	.45	.35
46551	74LS132N	DIP-14	Quad 2-input NAND schmitt trigger	.40	.351	.302
46586	74LS136N	DIP-14	Quad EXCLUSIVE-OR gate (O.C.)	.64	.54	.405
46607	74LS138N ⊕ **	DIP-16	3-to-8 decoder/demultiplexer	.52	.423	.322
46623	74LS139N *	DIP-16	2-to-4 decoder/demultiplexer	.37	.291	.23
46666	74LS145N	DIP-16	BCD-to-decimal decoder/driver (O.C.)	.73	.55	.423
46682	74LS148N	DIP-16	8-to-3 priority encoder	.98	.81	.60
46703	74LS151N *	DIP-16	8-input multiplexer	.45	.349	.269
46720	74LS153N	DIP-16	Dual 4-to-1 selector/multiplexer	.45	.357	.344
46738	74LS154N ⊕	DIP-24	4-to-16 line decoder/demultiplexer	5.15	4.59	3.69
46754	74LS155N*	DIP-16	Dual 2/4 demultiplexer	.85	.72	.54
46771	74LS157N*	DIP-16	Quad 2/1 data selector	.54	.423	.319
46800	74LS160N	DIP-16	Decade counter with asynch. clear	2.59	2.49	2.39
46818	74LS161N	DIP-16	Synch 4-bit counter	.43	.366	.275
46842	74LS163N	DIP-16	Fully synch. 4-bit counter	.46	.349	.265
46851	74LS164N	DIP-14	8-bit serial shift register	.52	.43	.315
46877	74LS165N	DIP-16	8-bit serial shift register, parallel load	.47	.40	.30
46906	74LS169N	DIP-16	Synch. binary up/down counter	.61	.47	.35
46922	74LS173N	DIP-16	4-bit D-type reg. tri-state	.72	.61	.458
46931	74LS174N*	DIP-16	Hex D flip-flop with clear	.79	.58	.435
46957	74LS175N*	DIP-16	Quad D flip-flop with clear	.51	.49	.455
46973	74LS181N	DIP-24	Arithmetic logic unit/function gen.	2.59	2.16	1.47
46990	74LS190N	DIP-16	Synchronous up/down counter	2.95	2.65	2.55
47001	74LS191N	DIP-16	Up/down binary counter	.58	.49	.37
47010	74LS192N	DIP-16	Decade up/down counter w/ clear	3.49	3.05	2.85
47036	74LS193N*	DIP-16	Binary up/down counter w/ clear	.59	.49	.45
47052	74LS194N⊕	DIP-16	4-bit bi-directional shift register	1.25	1.08	.78

*10 pcs. in 74LS series IC cabinet kit, left **20 pcs. in 74LS series IC cabinet kit, left

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

74LS, Tiny Logic, ECL Logic, MC14000 & 4000 Series

Additional Logic ICs are available online at www.Jameco.com/Semiconductors

74LS Series (Continued)

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
47124	74LS221N	DIP-16	Dual monostable multivibrator	$.77	$.64	$.48
47141	74LS240N*	DIP-20	Octal invert. line driver tri-state	.61	.519	.389
47183	74LS244N*	DIP-20	Octal driver tri-state	.53	.444	.336
47212	74LS245N⊕*	DIP-20	Octal bus transceiver tri-state	.64	.48	.416
47247	74LS247N⊕	DIP-16	BCD to 7-segment decoder/driver (O.C.)	1.00	.85	.68
47327	74LS259N	DIP-16	8-bit addressable latch	.46	.357	.328
47360	74LS266N	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.)	.69	.52	.395
47386	74LS273N*	DIP-20	Octal D-type flip-flop with clear	.63	.504	.38
47407	74LS279N	DIP-16	Quad set-rest latches	.50	.425	.319
47423	74LS283N	DIP-16	4-bit binary full add with fast carry	.53	.453	.35
47440	74LS299N	DIP-20	8-bit universal shift/storage register	1.59	1.35	1.01
47562	74LS367N	DIP-16	Hex buffer tri-state	.42	.357	.268
47600	74LS373N⊕*	DIP-20	Octal D flip-flop tri-state	.64	.49	.39
47634	74LS374N⊕*	DIP-20	Octal D flip-flop edge-trig. tri-state	.54	.465	.378
47669	74LS377N	DIP-20	Octal D register common enable	.50	.43	.319
47722	74LS390N	DIP-16	Dual 4-bit decade counter	.80	.66	.495
47731	74LS393N	DIP-14	Dual 4-bit binary counter	.69	.59	.44
47861	74LS540N	DIP-20	Octal invert. buffer/line driver tri-state	.99	.76	.63
47870	74LS541N	DIP-20	Octal buffer/line driver tri-state	.67	.57	.46
64418	74LS573N	DIP-20	Octal D-type flip-flop latch tri-state	2.05	1.85	1.55
64426	74LS574N	DIP-20	Octal D-type flip-flop edge-trig. tri-state	2.15	1.89	1.69
103974	74LS595N	DIP-16	8-bit serial-to-parallel shift reg. 3-state	5.25	4.46	3.35
47950	74LS645N	DIP-20	Octal bus transceiver tri-state (O.C.)	1.30	1.11	.83
47984	74LS688N	DIP-20	8-bit magnitude comparator	1.45	1.23	.92

*10 pcs. in 74LS series IC cabinet kit, pg 14

Fairchild Semiconductor Tiny Logic® Series

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
873661	NC7S04M5X🏆♠	SOT-23/5	Single inverter	✳	$.072	$.065
873830	NC7SU04M5X🏆	SOT-23/5	Single unbuffered inverter	✳	.137	.123
873725	NC7S08P5X🏆	SC70/5	Single 2-input AND gate	✳	.098	.088
873741	NC7S14M5🏆	SOT-23/5	Schmitt input inverter	.32	.285	.259
1011983	NC7S32P5X🏆♠	SC70/5	Single 2-input OR gate	✳	.057	.05
873813	NC7SB3157P6X🏆♠	SC70/6	2:1 mux/demux bus switch	✳	.137	.124
787413	NC7ST04M5🏆	SOT-23/5	Single inverter w/ TTL comp. inputs	.69	.58	.431
873881	NC7SZ00M5X🏆♠	SOT-23/5	2-input NAND gate	✳	.082	.074
873901	NC7SZ00P5X🏆♠	SC70/5	2-input NAND gate	✳	.082	.074
873944	NC7SZ04M5🏆♠	SOT-23/5	Single inverter	★	Call	Call
873961	NC7SZ04M5X🏆♠	SOT-23/5	Single inverter	✳	.072	.065
873987	NC7SZ04P5X🏆♠	SC70/5	Single inverter	✳	.072	.065
874007	NC7SZ08M5🏆♠	SOT-23/5	Single 2-input AND gate	★	Call	Call
874023	NC7SZ08M5X🏆♠	SOT-23/5	Single 2-input AND gate	✳	.072	.065
874066	NC7SZ08P5🏆♠	SC70/5	Single 2-input AND gate	★	Call	Call
874082	NC7SZ08P5X🏆♠	SC70/5	Single 2-input AND gate	✳	.072	.065
874251	NC7SZ14M5🏆♠	SOT-23/5	Single inverter w/ schmitt trigger input	★	Call	Call
874429	NC7SZ32P5X🏆♠	SC70/5	Single 2-input OR gate	✳	.057	.05
1021612	NC7SZ58P6X🏆♠	SC70/6	Universal config. 2-input logic gates	✳	.112	.101
874461	NC7SZ74K8X🏆♠	US8	D-type flip-flop w/ preset & clear	✳	.147	.133
874111	NC7SZ125M5🏆♠	SOT-23/5	Buffer w/ 3-st. output	★	Call	Call
874138	NC7SZ125M5X🏆	SOT-23/5	Buffer w/ 3-st. output	.21	.176	.158
874197	NC7SZ125P5X🏆♠	SC70/5	Single buffer w/ 3-st. output	✳	.082	.074
1017517	NC7SZ126M5X🏆♠	SOT-23/5	Single buffer w/ 3-st. output	✳	.087	.079
874234	NC7SZ126P5X🏆♠	SC70/5	Single buffer w/ 3-st. output	✳	.078	.068
874381	NC7SZ175P6X🏆♠	SC70/6	D-type flip-flop w/asynchronous clear	✳	.104	.095
874306	NC7SZ14M5X-NL🏆♠	SOT-23/5	Single inverter w/ schmitt trigg input	✳	.057	.05
874349	NC7SZ14P5X🏆♠	SC70/5	Single inverter w/ schmitt trigg input	✳	.056	.05
874525	NC7WZ04P6X🏆♠	SC70/6	Dual inverter	✳	.098	.086
874568	NC7WZ07P6X🏆♠	SC70/6	Dual buffer w/ open drain outputs	✳	.101	.087
874630	NC7WZ16P6X🏆♠	SC70/6	Dual buffer	✳	.097	.087

★ Please call or visit our website for minimum order quantity and pricing

ON Semiconductor® ECL Logic Series

Part No.	Product No.	Pkg.	Description	1	10	100
867229	MC10EL32D♠	SOIC-8	5V ECL ÷2 divider	$4.85	$4.58	$4.31
934727	MC10EP11D♠	SOIC-8	3.3V/5V ECL 1:2 differential fanout buffer	9.29	8.91	8.49
867501	MC10H116P♠	DIP-16	Triple line receiver	3.15	2.96	2.66
866488	MC100ELT21D♠	SOIC-8	5V diff. PECL to TTL translator	4.45	4.18	3.94
866681	MC100EP16D♠	SOIC-8	3.3V/5V ECL diff. receiver/driver	6.25	5.68	5.17
930507	MC100EPT22DTG🏆♠	TSSOP-8	3.3V dual LVTTL/LVCMOS to diff LVPECL translator	7.65	7.25	6.89
930700	MC100EPT25DT♠	TSSOP-8	-3.3V / -5V diff. ECL to +3.3V LVTTL translator	7.85	7.25	6.89
866904	MC100LVEL29DW♠	SOIC-20	3.3V ECL dual diff. D-type F-F w/ set/clear	9.39	8.52	7.75
867042	MC100LVELT22DT♠	TSSOP-8	3.3V dual LVTTL/LVCMOS to diff. LVPECL translator	7.85	7.15	5.95

ON Semiconductor® MC14000 Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
868029	MC14011BCP	PDIP-14	Quad 2-input NAND gate	$.26	$.224	$.205
791754	MC14011BCPG🏆	PDIP-14	Quad 2-input NAND gate	.27	.224	.205
940967	MC14013BDG🏆♠	SOIC-14	Dual D-type flip-flop	✳	.267	.228
868272	MC14016BCP	PDIP-14	Quad analog switch/multiplexer	.29	.238	.198
868301	MC14017BCP	PDIP-16	Decade counter	.48	.425	.386
791914	MC14017BCPG🏆	PDIP-16	Decade counter	.49	.445	.395
868571	MC14027BCP	PDIP-16	Dual J-K flip-flop	.35	.286	.265
792036	MC14028BCP	PDIP-16	BCD-to-decimal/binary-to-octal decoder	.30	.28	.21
792095	MC14040BCPG🏆	PDIP-16	12-bit binary counter	.56	.465	.426
868715	MC14042BCP	PDIP-16	Quad transparent latch	.43	.36	.33
868820	MC14046BCP	PDIP-16	Phase-locked loop	★	Call	Call
792141	MC14049BDG🏆♠	SOIC-16	Hex inverter/buffer	✳	.327	.293
868942	MC14049UBCP	PDIP-16	Hex inverter/buffer	.35	.287	.265
869021	MC14050BCP	PDIP-16	Non-inverting hex buffer	.42	.356	.267
869101	MC14051BD	SOIC-16	8-ch multiplexer/demultiplexers	.35	.297	.223
869144	MC14052BCP	PDIP-16	Dual 4-ch analog multi/demultiplexer	.42	.376	.336
943957	MC14060BCPG🏆♠	PDIP-16	14-bit binary counter & oscillator	✳	.309	.287
869355	MC14066BCP🏆	PDIP-14	Quad analog switch/quad multiplexer	.39	.317	.242
869380	MC14066BD♠	SOIC-14	Quad analog switch/quad mux.	✳	.332	.249
869443	MC14067BCP	PDIP-14	16-ch analog multiplexer/demultiplexer	1.45	1.31	1.17
792221	MC14069UBCPG🏆	PDIP-14	Hex inverter	.31	.283	.251
869558	MC14070BCP	PDIP-14	CMOS SSI quad exclusiver OR gate	.31	.283	.252
792247	MC14070BCPG🏆♠	PDIP-14	CMOS SSI quad exclusiver OR gate	✳	.279	.238
869697	MC14073BCP	PDIP-14	Triple 3-input AND gate	.37	.333	.25
869751	MC14077BD♠	SOIC-14	CMOS SSI quad exclusive NOR gate	✳	.297	.24
945047	MC14081BDG🏆♠	SOIC-14	Quad 2-input AND gate	✳	.261	.231
792301	MC14093BCPG🏆	PDIP-14	Quad 2-input NAND schmitt trigger	.28	.234	.215
792360	MC14106BCPG🏆♠	PDIP-14	Hex schmitt trigger	✳	.353	.304
870137	MC14175BCP	PDIP-16	Quad type D flip-flop	.34	.283	.26
792440	MC14489BPE🏆	DIP-20	Multi-character LED display/lamp drvr	3.69	3.40	3.10
945830	MC14490PG🏆♠	PDIP-16	Hex contact bounce eliminator	5.15	4.22	3.87
946189	MC14504BCPG🏆♠	PDIP-16	Hex level shifter for TTL-CMOS or CMOS-CMOS	1.05	.85	.63
792474	MC14511BCPG🏆	PDIP-16	BCD-to-7 seg latch/decoder/driver	.54	.465	.426
792511	MC14514BCP	PDIP-24	4-bit transparent latch/4-to-16 line dec	1.45	1.32	1.17
792554	MC14521BDG🏆	SOIC-16	24-stage frequency counter	.74	.63	.473
947026	MC14528BCPG🏆♠	PDIP-16	Dual monostable multivibrator	.54	.49	.43
870495	MC14538BCPG🏆	PDIP-16	Dual prec rettrig/reset mono multi	.56	.465	.349
870591	MC14543BCP	PDIP-16	BCD-to-7 seg latch/dec./driver for LCD	.52	.44	.396
947982	MC14553BCPG🏆	DIP-16	3-digit BCD decoder	1.69	1.36	1.26
870671	MC14557BCP♠	PDIP-16	1-to-64 bit variable lgth shift register	1.08	.96	.88
792714	MC14572UBCP	PDIP-16	Hex gate	.38	.376	.282
870735	MC14584BCP	PDIP-14	Hex schmitt trigger	.42	.261	.24
792757	MC14584BCPG🏆	PDIP-14	Hex schmitt trigger	.40	.356	.317
870778	MC14584BDG🏆♠	SOIC-14	Hex schmitt trigger	✳	.223	.188

★ Please call or visit our website for minimum order quantity and pricing

NXP / PHILIPS 4000 Series

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
916844	HEF40106BPN🏆	DIP-14	Hex inverting schmitt trigger	✳	$.151	$.142
917169	HEF4538BTD🏆	SOIC-16	Dual precision monostable multivibrator	✳	.239	.22

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

🏆 RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

FAIRCHILD SEMICONDUCTOR 4000 Series

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
870241	CD4001BCM♻♠	SOIC-14	Quad 2-input NOR buffered B series gates	✳	$.235	$.211
785063	CD4001BCN♻	DIP-14	Quad 2-input NOR buffered B series gates	.44	.363	.277
870330	CD4011BCM♻♠	SOIC-14	Quad 2-input NAND buffered B series gates	✳	.198	.169
870372	CD4013BCM♻	SOIC-14	Dual D-type flip-flop	.33	.248	.223
870410	CD4013BCN♻	DIP-14	Dual D-type flip-flop	.47	.356	.267
870567	CD4051BCM♻♠	SOIC-16	Single 8-ch analog mux/demux	✳	.339	.289
870583	CD4051BCN♻	DIP-16	Single 8-ch analog mux/demux	.58	.44	.396
870604	CD4052BCM♻♠	SOIC-16	Dual 4-ch analog mux/demux	✳	.335	.286
870612	CD4053BCM♻	SOIC-16	Triple 2-ch analog mux/demux	.45	.337	.303
870663	CD4060BCN♻	DIP-16	14-stage ripple carry binary counter	.53	.44	.40
870680	CD4066BCM♻	SOIC-14	Quad bilateral switch	.30	.232	.203
870807	CD4093BCN♻	DIP-14	Quad 2-input NAND schmitt trigger	.39	.333	.30
870284	CD40106BCM♻	SOIC-14	Hex schmitt trigger	.30	.225	.203
785071	CD40106BCN♻	DIP-14	Hex schmitt trigger	.47	.356	.267
870831	CD4538BCM♻♠	SOIC-16	Dual precision monostable multivibrator	✳	.353	.30
870858	CD4538BCN♻	DIP-16	Dual precision monostable multivibrator	.53	.44	.33

Texas Instruments 4000 Series

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
893056	CD4002BE♻	DIP-14	CMOS dual 4-input NOR gate	$.49	$.392	$.333
893283	CD4011BE♻✪	DIP-14	CMOS NAND gate	.49	.396	.297
893443	CD4013BE♻	DIP-14	CMOS dual D-type flip-flop	.49	.396	.297
893611	CD4017BE♻	DIP-16	CMOS counter/divider	.47	.356	.267
817598	CD4017BPW♻	TSSOP-16	CMOS counter/divider	.43	.39	.29
893769	CD4020BE♻	DIP-16	CMOS ripple carry binary counter/divider	.47	.41	.312
893806	CD4021BE♻	DIP-16	CMOS 8-stage static shift register	.28	.257	.228
893911	CD4024BE♻	DIP-14	CMOS 7-st ripple carry binary contr/divider	.47	.356	.267
893988	CD4027BE♻	DIP-16	CMOS dual J-K master slave flip-flop	.44	.36	.292
894024	CD4028BE♻	DIP-16	BCD-to-decimal decoder	.49	.369	.325
817838	CD4028BM♻	SOIC-16	BCD-to-decimal decoder	.43	.39	.29
894059	CD4029BE♻♠	DIP-16	CMOS presettable up/down counter	✳	.27	.253
817862	CD4031BE♻✪	DIP-16	CMOS 64-stage static shift register	1.35	1.14	1.03
894171	CD4040BE♻	DIP-16	CMOS ripple carry binary cntr/divider	.38	.325	.313
817897	CD4041UBE♻	DIP-14	CMOS quad true/compliment buffer	.94	.71	.53
894251	CD4043BE♻✪	DIP-16	CMOS quad NOR 3-st R/S latch	.59	.44	.396
817951	CD4046BE1♻♠	DIP-16	CMOS ĺpwr phase-locked loop, I-temp	.55	.416	.312
894331	CD4047BE♻♠	DIP-14	CMOS LP monostable/astable multivibr, I-temp	.51	.355	.287
1238299	CD4049UBDWG4♻	SOIC-16	CMOS hex buffer/converter	.34	.289	.217
818072	CD4049UBE1♻	DIP-16	CMOS hex buffer/cnvrtr (inverting), I-temp	.52	.392	.294
894391	CD4051BE♻♠	DIP-16	Single 8-ch MUX w/ 3-binary inputs, I-temp	✳	.258	.242
818224	CD4056BE♻	DIP-16	CMOS liquid crystal display driver	.60	.45	.33
818304	CD4066BE♻✪	DIP-14	CMOS quad bilateral switch	.54	.43	.32
894761	CD4069UB♻✪	DIP-14	CMOS hex inverter	.54	.43	.367
818523	CD4070BE1♻	DIP-14	CMOS quad exclusive OR gate, I-temp	.54	.431	.323
894809	CD4071BE♻	DIP-14	CMOS quad 2-input or gate	.54	.431	.323
894833	CD4072BE♻	DIP-14	CMOS dual 4-input OR gate	.45	.369	.306
894876	CD4073BE♻♠	DIP-14	CMOS triple 3-input AND gate, I-temp	✳	.199	.186
818646	CD4075BE1♻♠	DIP-14	CMOS triple 3-input OR gate, I-temp	.54	.43	.323
818873	CD4093BE♻	DIP-14	Quad 2-input NAND schmitt trigger	.54	.43	.32
895377	CD4511BE♻✪	DIP-16	CMOS BCD-to-7 seg. latch decoder/driver	.51	.386	.325
895481	CD4518BE♻	DIP-16	CMOS dual up countr, hi volt (20V), I-temp	.51	.221	.207
819104	CD4521BE♻	DIP-16	BMOS 24-stage frequency divider	.74	.547	.419
895633	CD4541BE♻♠	DIP-14	CMOS programmable time, hi volt (20V), I-temp	✳	.221	.207
817336	CD14538BE1♻	DIP-16	CMOS dual prec monostable multivibr, I-temp	.29	.244	.226
893241	CD40107BE♻♠	DIP-8	CMOS dual 2-input NAND buffer/drvr, I-temp	✳	.27	.253
817424	CD40109BE1♻♠	DIP-16	CMOS quad low-to-hi volt level shiftr, I-temp	✳	.368	.345

✪ Blue Part No. = Limited Quantity Available

Our goal is to provide you with more of what you want.
Let us know how we can better serve your electronics needs.
Please send your requests to **NewProducts@Jameco.com**.

4000 Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
12562	CD4001N**	DIP-14	Quad 2-input NOR gates	$.39	$.30	$.23
675964	CD4002N	DIP-14	Dual 4-input NOR gates	.41	.336	.179
12597	CD4007N⊕	DIP-14	Dual comp. pair with inverter	.42	.336	.255
12634	CD4011N⊕**	DIP-14	Quad 2-input NAND gates	.35	.288	.228
675972	CD4012N	DIP-14	Dual 4-input NAND gates	.34	.295	.179
12677	CD4013N⊕**	DIP-14	Dual D flip-flops with set/reset	.41	.34	.25
13565	CD4518N	DIP-16	Dual BCD up counters	.44	.333	.25
13581	CD4520N	DIP-16	Dual binary up counters	.34	.27	.21
13611	CD4528N	DIP-16	Dual monostable multivibrators	1.14	.98	.73
13653	CD4538N*	DIP-16	Dual precision monostable multivibrators	.45	.378	.287
13688	CD4541N	DIP-14	Oscillator/programmable timer	.45	.369	.281
13696	CD4543N*	DIP-16	BCD to 7-segment decoder (LCD)	.40	.302	.227
13709	CD4553N	DIP-16	3-digit BCD counter	2.95	2.66	2.39
13768	CD4584N*	DIP-14	Hex schmitt triggers	.39	.35	.29
676481	CD40103N	DIP-16	8-st. preset. synch. down cntrs (8-bit binary)	.52	.468	.351
44257	CD40106N	DIP-14	Hex inverters Schmitt trigger (74C14)	.49	.465	.42
12722	CD4016N*	DIP-14	Quad bilateral switches	.28	.24	.18
12749	CD4017N⊕*	DIP-16	Decade counter/divider	.39	.35	.32
197296	CD4017M	SOIC-16	Decade counter/divider	.36	.31	.233
12773	CD4018N	DIP-16	Presettable divide-by-N counter	.47	.353	.268
12802	CD4020N*	DIP-16	14-stage binary/ripple counter	.39	.36	.33
12845	CD4023N*	DIP-14	Triple 3-input NAND gates	.39	.33	.25
12853	CD4024N⊕*	DIP-14	7-stage binary counter	.39	.30	.23
353560	CD4026N	DIP-16	Decade counter/divider	.62	.52	.39
12888	CD4027N*	DIP-16	Dual JK master-slave flip-flops	.33	.264	.192
12909	CD4028N	DIP-16	BCD-to-decimal decoder	.40	.266	.244
12925	CD4029N	DIP-16	Presettable up/down counter	.34	.323	.242
12950	CD4040N*	DIP-16	12-stage binary/ripple counter	.31	.29	.22
197333	CD4040M	SOIC-16	12-stage binary/ripple counter	.51	.43	.323
12992	CD4043N	DIP-16	Quad NOR R-S latches tri-state	.49	.378	.283
13004	CD4044N	DIP-16	Quad 3-state NAND R-S latches tri-state	.38	.318	.238
13055	CD4049N**	DIP-16	Hex/buffer/converters (inverting)	.35	.288	.25
13098	CD4051N⊕*	DIP-16	Single 8-channel multi./demultiplexer	.45	.39	.35
13119	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer	.31	.26	.195
13127	CD4053N	DIP-16	Triple 2-channel multi./demultiplexers	.45	.369	.277
13151	CD4060N⊕	DIP-16	14-stage ripple-carry binary	.41	.33	.25
13186	CD4066N⊕**	DIP-14	Quad bilateral switches	.39	.30	.23
13215	CD4067N	DIP-24	16-channel analog multi./demultiplexer	1.16	.98	.78
13231	CD4069N⊕*	DIP-14	Hex inverters (74C04)	.38	.317	.238
13258	CD4070N*	DIP-14	Quad exclusive-OR gates (74C86)	.35	.298	.224
13274	CD4071N*	DIP-14	Quad 2-input OR gates	.39	.346	.28
676078	CD4072N	DIP-14	Dual 4-input OR gates	.42	.344	.258
676086	CD4073N	DIP-14	Triple 3-input AND gates	.40	.379	.196
676094	CD4075N	DIP-14	Triple 3-input OR gates	.45	.365	.274
13354	CD4081N⊕*	DIP-14	Quad 2-input AND gates	.40	.32	.295
676123	CD4082N	DIP-14	Dual 4-input AND gates	.42	.36	.215
13400	CD4093N⊕*	DIP-14	Quad 2-input NANDs schmitt trigger	.35	.30	.228
13426	CD4094N⊕	DIP-16	8-stage shift-and-store bus register	.28	.26	.23
13485	CD4510N	DIP-16	BCD up/down counter	.39	.30	.23
13493	CD4511N⊕*	DIP-16	BCD-to-7 segment latch/decoder/driver	.69	.59	.49
13522	CD4514N	DIP-24	4-bit latch/4-16 line decoder	.94	.81	.61
13549	CD4516N	DIP-16	Binary up/down counter	.53	.398	.306

*10 pcs. in 4000 series IC cabinet kit, below **20 pcs. in 4000 series IC cabinet kit, below

4000 Series CMOS IC Kit

SAVE $21



Includes:
20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 138 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4056

Part No.	Description	Wt. (lbs.)	1	10
84970	300 pcs. 4000 series CMOS IC kit	6.1	$95.65	$90.85

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

7400, 74C, 74S/AS Series & Micromonitor Chips

Additional ICs are available online at www.Jameco.com/Semiconductors

Texas Instruments 7400 Series

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
830063	SN7404D	SOIC-14	Hex inverters	$1.55	$1.41	$1.22
910944	SN7406D♠	SOIC-14	Hex invtr buffer/drvr w/ O.C. hi-volt outputs, C-temp	.95	.79	.63
910987	SN7406N	DIP-14	Hex inv buffer/drivr w/ open collectr hi-volt output	1.03	.86	.81
1375710	SN7407D1♠	SOIC-14	Hex buffer/drvr w/ O.C. hi-volt outputs, C-temp	.95	.79	.63
911015	SN7407N	DIP-14	Hex buffer/driver w/ open collectr hi-volt output	.87	.79	.74
910901	SN7400N	DIP-14	Quad 2-input pos. NAND gates	1.15	.97	.77

7400 Series

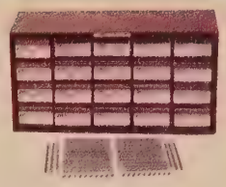
Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48979	7400N⊕**	DIP-14	Quad 2-input NAND gates	$.97	$.82	$.66
49007	7401N	DIP-14	Quad 2-input NAND gates (O.C.)	.77	.74	.71
49015	7402N⊕*	DIP-14	Quad 2-input NOR gates	1.09	.99	.89
49040	7404N⊕**	DIP-14	Hex inverters	1.09	.89	.80
49074	7405N⊕*	DIP-14	Hex inverters (O.C.)	.69	.54	.405
49091	7406N**	DIP-14	Hex inverter buffer/drivers (O.C.)	.68	.60	.53
49120	7407N⊕**	DIP-14	Hex buffer/drivers (O.C.)	.59	.53	.47
49146	7408N*	DIP-14	Quad 2-input AND gates	1.49	1.35	1.25
49189	7410N⊕*	DIP-14	Triple 3-input NAND gates	.77	.70	.50
49402	7413N	DIP-14	Dual 4-input NAND gates schmitt trigger	1.25	1.12	1.01
49437	7414N⊕*	DIP-14	Hex inverters schmitt trigger	.71	.64	.58
49630	7416N⊕*	DIP-14	Hex inverter buffer/drivers (O.C.)	.85	.70	.525
49728	7417N*	DIP-14	Hex buffer/drivers (O.C. hi-voltage)	.91	.77	.58
50008	7420N*	DIP-14	Dual 4-input NAND gates	.99	.84	.63
50227	7430N*	DIP-14	8-input NAND gate	.62	.58	.435
50235	7432N⊕*	DIP-14	Quad 2-input OR gates	.98	.84	.66
50374	7442N	DIP-16	BCD-to-decimal decoder	1.69	1.42	1.07
50403	7445N	DIP-16	BCD-to-decimal decoder/driver	1.49	1.27	1.15
50420	7447N⊕*	DIP-16	BCD-to-7 segment decoder/driver (L.O.)	1.49	1.29	.99
50526	7472N	DIP-14	AND gated JK master/slave flip-flop	1.95	1.67	1.25
50534	7473N	DIP-14	Dual JK flip-flops with clear	1.95	1.75	1.59
50551	7474N**	DIP-14	Dual D flip-flops	.72	.62	.59
50577	7475N	DIP-16	4-bit bi-stable latch	2.95	2.75	2.49
50593	7476N	DIP-16	Dual JK flip-flops with preset and clear	2.95	2.65	2.39
50631	7483N	DIP-16	4-bit binary full adder	2.95	2.65	2.39
50657	7485N*	DIP-16	4-bit magnitude comparator	2.15	1.96	1.42
50665	7486N	DIP-14	Quad exclusive-OR gates	1.75	1.59	1.45
50681	7489N	DIP-16	64-bit RAM P 50ns	3.85	3.50	3.28
50690	7490N	DIP-14	Decade counter	2.95	2.65	2.39
50737	7492N	DIP-14	Divide-by-12 counter	1.49	1.29	1.07
50745	7493N	DIP-14	4-bit binary counter	1.75	1.59	1.45
49234	74107N*	DIP-14	Dual JK flip-flop with clear	.57	.484	.363
49322	74121N⊕	DIP-14	Monostable multivibrator	1.25	1.15	1.00
49357	74123N⊕*	DIP-16	Dual retriggerable mono multivibrator	1.39	1.33	1.26
49373	74125N	DIP-14	Quad bus buffer tri-state (DM8093N)	1.39	1.32	1.25
49496	74148N	DIP-16	8 to 3 line octal priority encoder	1.24	1.05	.79
49509	74150N⊕	DIP-24	16 to 1 line multiplexer	2.15	2.01	1.68
49525	74151N*	DIP-16	8-input multiplexer	.75	.63	.472
49550	74153N*	DIP-16	Dual 4/1 data selector/multiplexer	1.31	1.12	.85
49568	74154N	DIP-24	4 to16 line decoder/demultiplexer	2.69	2.34	2.10
49605	74157N*	DIP-16	Quad 2/1 data selector	.99	.86	.65
49648	74160N*	DIP-16	Decade counter with asynch clear	.52	.46	.41
49664	74161N	DIP-16	Synchronous 4-bit counter w/ direct clear	.77	.69	.55
49672	74163N	DIP-16	Fully synchronous 4-bit counter	.89	.76	.57
49681	74164N	DIP-14	8-bit serial shift register	.94	.79	.59
49795	74175N*	DIP-16	Quad D-type flip-flop with clear	1.29	1.04	.78
49841	74181N	DIP-24	Arithmetic logic unit/function generator	3.65	3.32	2.99
49883	74189N	DIP-16	64-bit RAM tri-state (DM8599N)	3.39	2.89	2.17
49904	74191N	DIP-16	Binary up/down counter	2.05	1.73	1.30
49912	74192N	DIP-16	Decade up/down counter with clear	4.25	3.85	3.49
49939	74193N	DIP-16	Binary up/down counter with clear	2.39	2.10	1.92
49955	74194N	DIP-16	4-bit bi-directional shift register	1.75	1.49	1.12

*10 pcs./**20 pcs. in 7400 series IC cabinet kit, above right

7400 Series IC Kit

SAVE $154



Includes:
20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 138 and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474

Part No.	Description	Wt. (lbs.)	1	10
84953	350 pcs. 7400 IC kit	6.2	$179.95	$161.94

Fairchild 74C Series

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
871842	MM74C914N	DIP-14	Hex schmitt trigg. w/ extend. input volt.	$3.89	$3.41	$2.84
871754	MM74C14M	SOIC-14	Hex schmitt trigger	.74	.61	.49
871771	MM74C14N	DIP-14	Hex schmitt trigger	.74	.62	.49
871800	MM74C74N♠	DIP-14	Dual D-type flip-flop	2.15	1.85	1.55
871869	MM74C922N	DIP-18	16-key encoder	6.15	5.74	5.34
982956	MM74C923NNL♠	DIP-18	20-key encoder	6.15	5.74	5.34
871922	MM74C923WM♠	SOIC-20	20-key encoder	6.15	5.74	5.34

Texas Instruments 74C Series

Part No.	Product No.	Pkg.	Description	1	10	100
834881	SN74CBTLV3253PW	TSSOP-14	Dual 1-of-4 FET mux/demux	$.86	$.65	$.49

74C Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44222	74C00N	DIP-14	Quad 2-input NAND gate	$1.15	$.91	$.68
44257	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106)	.49	.465	.42
44441	74C74N	DIP-14	Dual D-type flip-flop	2.25	1.80	1.35
44361	74C221N	DIP-16	Dual monostable multivibrator	3.65	2.95	2.30
44396	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state	4.65	3.74	2.81
44564	74C922N	DIP-18	16-key keyboard encoder (INS8245N)	7.05	6.79	6.19
44572	74C923N	DIP-20	20-key keyboard encoder (INS8246N)	8.75	5.07	4.44
44599	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver	12.59	10.71	9.10

Texas Instruments 74S/AS Series

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
834081	SN74AS08D	SOIC-14	Quad 2-input pos AND gate, C-temp	$.79	$.72	$.67
834110	SN74AS1000AN	DIP-14	Quad 2-input pos NAND buffer/drvr, C-temp	1.75	1.61	1.49
1052013	SN74S112ANE4	DIP-16	Dual J-K neg. edge trigg. F-F w/ reset & clear	1.79	1.58	1.18
758111	SN74S140D	SOIC-14	Dual 4-input pos. NAND 50Ω line drivers	2.55	2.24	1.93

74S Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
676967	74S04N	DIP-14	Hex Inverter	$.77	$.65	$.488
48557	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03)	4.49	4.00	3.00
48696	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10)	12.95	11.65	9.95
48717	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N)	8.95	8.05	7.25
48805	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N)	3.15	2.96	2.22
52513	74S428N	DIP-28	System contr./bus driver (8228)	3.69	3.19	2.36
48864	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N)	12.95	11.65	10.49

Dallas Semiconductor Micromonitor Chips

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
114331	DS1232	DIP-8	Micromonitor chip	$1.85	$1.34	$1.02
862348	DS1232♠	DIP-8	Micromonitor chip	2.05	1.54	1.45
780220	DS1232+♠	DIP-8	Micromonitor chip	2.05	1.53	1.45
1193481	DS1232LP+♠	DIP-8	Low power micromonitor chip	1.99	1.64	1.47
862364	DS1232LPS-2♠	SOIC-8	Low power micromonitor chip	1.99	1.65	1.47
780254	DS1232LPS-2+♠	SOIC-8	Low power micromonitor chip	2.19	1.65	1.47
862399	DS1232LPSN-2♠	SOIC-8	Low power micromonitor chip	2.55	1.70	1.69
1193561	DS1232S+♠	SOIC-16	Micromonitor chip	2.65	2.00	1.80
862479	DS1232SN♠	SOIC-16	Micromonitor chip	2.79	2.29	2.10

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Supervisory, Power Management, 65LVDS & Drivers

Color Code Legend: New Sale Lower$ QtySave

Additional ICs are available online at www.Jameco.com/Semiconductors

DALLAS SEMICONDUCTOR Dallas Semiconductor — NEW

Part No.	Product No.	Pkg.	Description	1	10	100
782241	DS32KHZ/DIP	DIP-14	32.76kHz temp compensatd crystal oscilltr	$8.89	$6.98	$6.60
114198	DS1210	DIP-8	NV controller chip	4.55	3.78	2.83
114219	DS1213C	DIP-28	Smart socket	22.45	17.70	12.95
133410	DS1216C	DIP-28	Smart watch/RAM	30.55	25.14	18.59
866584	DS275	DIP-8	Line powered RS-232 transceiver chip	3.99	3.83	3.67
862209	DS1230Y-200	DIP-28	256 non-volatile SRAM	16.35	14.93	13.53
780182	DS1231-20+	DIP-8	Power monitor chip	8.09	6.09	5.39
862751	DS1245Y-100	DIP-32	1024k non-volatile SRAM	33.15	27.44	24.39
862920	DS1267S-050	DIP-14	Dual digital thermometer chip, 50kΩ	8.49	7.01	6.24
1921725	DS1267S-010+♠	SOIC-16	±5V, 10kΩ dual digital thermometer chip	9.25	8.72	8.29
133444	DS1286♣	DIP-28	Watchdog timekeeper	22.15	16.90	12.40
76646	DS1287♣	DIP-24	Real time clock chip	8.69	7.38	6.64
176778	DS1302⊕	DIP-8	Trickle charge time keeping	3.19	2.44	1.48
780481	DS1302+	PDIP-8	Trickle charge time keeping chip, C-temp	3.89	3.31	3.09
780529	DS1302Z+♠	SOIC-8	Trickle charge time-keeping chip	2.95	2.43	2.16
1194679	DS1307	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	3.59	2.79	2.43
780561	DS1314S-2+♠	SOIC-8	3V non-volatible contrlr w/ lithium batt. monitr	15.85	11.95	10.41
114382	DS1620	DIP-8	Digital thermometer and thermostat	5.35	4.42	3.39
863640	DS1624S	SOIC-8	Digital thermometer and memory	8.05	6.62	5.89
865709	DS1821	PR-35	Prog. digital thermostat & thermometer	6.15	4.70	4.10
865936	DS18B20	TO-92	Prog. resolution 1-wire digital thermometer	4.45	3.89	3.31
866007	DS1994L-F5+♠	F5 MicroCan	4kb plus time memory iButton	23.19	15.43	13.83
866277	DS2401P♠	TSOC-6	Silicon serial number	1.75	1.39	1.31
866306	DS2401Z♠	SOT-223	Silicon serial number	1.99	1.57	1.49
133452	DS12887♣	DIP-24	Real time clock chip	8.15	6.93	5.19
782129	DS2433S+♠	SOIC-8	4kb 1-wire EEPROM	3.95	3.80	3.76
782372	DS80C320-QCG+♠	PLLC-44	Hi speed low power microcontroller	18.59	14.09	12.44
866947	DS9034PC♠	Power cap	Power cap w/o crystal	8.55	6.44	4.93
782436	DS9034PCX+♠	Power cap	Power cap w/ crystal	8.75	7.23	6.42

♠ Pull = Extra Savings

MPU Supervisory

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
106219	MAX690CPA	DIP-8	Watchdog timer, 4.4V	$5.59	$3.57	$2.68
106227	MAX691CPE	DIP-16	Watchdog timer, 4.65V	6.35	4.28	3.21
106260	MAX1232CPA	DIP-8	Watchdog timer, 4.65V - 4.75V	2.85	1.87	1.40

Allegro Supervisory & Resets

Part No.	Product No.	Pkg.	Description	1	10	100
1718778	A1323EUA-T♠	SIP-3	Ratiometric linear hall effect sensor for hi-temp op	$1.18	$1.11	$1.04
1718727	A1203EUA-T♠	SIP-3	Continuous-time bipolar switch	1.01	.95	.89

MAXIM Supervisory

Part No.	Product No.	Pkg.	Description	1	10	100
884897	MAX691ACPE	DIP-16	µP supervisory circuit (C-temp)	$7.49	$6.22	$5.10
823293	MAX807LCPE♠	DIP-16	µP sup. circuit w/ ±1.5% reset accuracy	6.89	6.19	5.57
823744	MAX818LCPA♠	DIP-16	+5V µP supervisory circuit	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments Supervisory — NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
762291	TPS3103K33DBVT♠	SOT-23/6	Ultralow supply curr/volt supervisory circuit	★	Call	Call
1522492	TPS3305-18D♠	SOIC-8	Dual processor supervisory	2.19	1.79	1.73
1522548	TPS3305-33D♠	SOIC-8	Dual processor supervisory	3.15	2.46	2.31
1522759	TPS3307-33D♠	SOIC-8	Triple processor supervisory, I-temp	2.29	1.87	1.81
762531	TPS3823-33DBVT♠	SOT-23/5	Processor supervisory circuit	★	Call	Call
762620	TPS3836K33DBVT	SOT-23/5	Nano power supervisory circuit	2.35	1.87	1.79
760763	TL7705ACD♠	SOIC-8	Supply-voltage supervisor, C-temp	.55	.41	.30
822637	TL7705ACP♠	DIP-8	Supply-voltage supervisor, C-temp	✳	.295	.276
1092381	TLC7733ID♠	SOIC-8	µPwr supply volt supervisor, I-temp	2.59	2.00	1.87
1083750	TL7757CLP♠	TO-92	Supply-volt supervr & prec volt detector, C-temp	.71	.53	.39

★ Please call or visit our website for minimum order quantity and pricing

ON Semiconductor® Power Management

Part No.	Cross Ref.	Pkg.	Description	1	10	100
871682	MC34064D-005✪	SOIC-5	Undervoltage sensing circuit	$1.27	$1.16	$1.00

✪ Blue Part No. = Limited Quantity Available

Texas Instruments Power Management Volt. Reference

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
908406	REF02AP♠	DIP-8	+5V precision voltage ref.	$3.59	$3.33	$3.14
826259	LM285D-2-5♠	SOIC-8	Micropower voltage ref.	✳	.265	.25
826902	LM385D-2-5♠	SOIC-8	Micropower voltage ref.	✳	.189	.176
760544	TL431CPK♠	SOT-89/3	Adjustable precision shunt regulators	★	Call	Call
760561	TL431ID♠	SOIC-8	Adjustable precision shunt regulators	✳	.118	.11
760608	TL431ILP	TO-92	Adjustable precision shunt regulators	.44	.356	.267
822442	TL431IP♠	DIP-8	Adjustable precision shunt regulators	✳	.147	.133
826523	TLV431AID♠	SOIC-8	Adjustable precision shunt regulators	.57	.472	.441
903120	LT1004CD-1-2♠	SOIC-8	Micropower integrated voltage ref.	✳	.338	.318
760202	TL1431QD♠	SOIC-8	Precision programmable ref.	.79	.72	.68
908650	REF3012AIDBZT♠	SOT-23/3	CMOS voltage ref., 50ppm/0C, 50µA	★	Call	Call
908692	REF3020AIDBZT♠	SOT-23/3	CMOS voltage ref., 50ppm/0C, 50µA	★	Call	Call
827155	LM4041C12IDBZT	SOT-23/3	1.2V precision micropower shunt volt ref.	1.32	1.13	.94

★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments 65LVDS Series

Part No.	Product No.	Pkg.	Description	1	10	100
910371	SN65LVDS1DBVT♠	SOT-23/5	High-spd diff. line driver/rcv.	★	Call	Call
829855	SN65LVDS2D♠	SOIC-8	High-spd diff. line driver/rcv.	.99	.90	.85
910717	SN65LVDT386DGG♠	TSSOP-64	Hi-spd diff. line 16 rcvs., C-temp.	11.65	10.80	10.17
829943	SN65LVDS388ADBT♠	SM8-38	Hi-spd diff. line 8 rcvs., I-temp.	6.09	5.65	5.33
910565	SN65LVDS389DBT♠	SM8-38	Hi-spd diff. line 8 drvs., I-temp.	6.09	5.65	5.33
910590	SN65LVDS9637BD♠	SOIC-8	Hi-spd diff. line 2 receivers	2.45	2.25	2.11
910637	SN65LVDS9638DGK♠	MSOP-8	High-spd diff. line drvs., I-temp.	2.45	2.25	2.11

★ Please call or visit our website for minimum order quantity and pricing

Allegro Display Drivers

Part No.	Product No.	Pkg.	Description	1	10	100
1719332	A6800SA-T♠	DIP-14	DABiC-5 latched sink drivers	$1.39	$1.12	$1.02
1719341	A6801SA-T♠	DIP-22	DABiC-5 latched sink drivers	2.05	1.65	1.49
1719391	A6810SLW♠	SOIC-20	DABiC-IV, 10-bit serial input, latched source drvr	2.09	1.91	1.79
1719367	A6810EA♠	DIP-18	DABiC-IV, 10-bit serial input, latched source drvr	1.69	1.55	1.40
1719439	A6821SA-T♠	DIP-16	DABiC-5, 8-bit serial input, latched sink drvr	2.19	1.76	1.60

Allegro Power Drivers

Part No.	Product No.	Pkg.	Description	1	10	100
1719210	A6275EA	DIP-16	8-bit serial input constant curr. latched LED drvr	$1.41	$1.22	$1.17
1719228	A6275ELW♠	SOIC-16	8-bit serial input constant curr. latched LED drvr	1.49	1.31	1.20
1718831	A2557KLB-T♠	SOIC-16	Quad low-side drvr w/ fault protect&sleep mode	2.25	2.00	1.80
1719480	A6841SLW-T♠	SOIC-18	DABiC-5, 8-bit serial input latched sink drvr	2.45	2.21	1.99
1719471	A6841SLW-20-T♠	SOIC-20	DABiC-5, 8-bit serial input latched sink drvr	4.45	2.98	2.56
1762664	UDN2559B♠	DIP-16	Protected quad power driver	3.89	3.05	2.76
1762656	UDK2559EB♠	PLCC-28	Protected quad power driver	4.69	3.84	3.77
1762681	UDN2981A-T	DIP-18	8-channel source drivers	1.75	1.39	1.27
1762701	UDN2987LW-6-T♠	SOIC-20	DABiC-5 8-ch source drvr w/ overcurr. protection	2.69	2.20	2.18

Allegro Motor Control Drivers

Part No.	Product No.	Pkg.	Description	1	10	100
1719130	A3959SLB-T♠	SOIC-24	DMOS full bridge PWM motor driver	$4.85	$4.21	$3.85
1719164	A3979SLP-T♠	TSSOP-20	Microstepping DMOS driver w/ translator	6.49	5.79	5.22

National Semiconductor RS-232 Receiver — NEW

Part No.	Product No.	Pkg.	Description	1	10	100
832131	DS14C89AM/NOPB	SOIC-14	Quad CMOS receiver	$.98	$.92	$.86

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

RS-232/422/485 Drivers/Receivers

Additional ICs are available online at www.Jameco.com/Semiconductors

MAXIM RS-232 Drivers/Receivers NEW

Part No.	Product No.	Pkg.	Description	1	10	100
808000	MAX202CSE+	SOIC-16	+5V dual RS-232 trans. w/ 0.1µF ext. cap	$3.09	$2.44	$2.16
882023	MAX202EESE♠	SOIC-16	±15kV ESD-protect, +5V dual RS-232 trans.	5.05	3.98	3.52
808288	MAX208ECNG+	DIP-24	±15kV ESD-protect, +5V RS-232 trans.	8.35	6.50	5.69
808544	MAX214CPI	DIP-28	Prog. DTE/DCE, +5V dual RS-232 trans.	9.59	9.09	6.82
882171	MAX232ACPE♠	DIP-16	+5V multi-ch RS-232 drvrs/recvrs, C-temp	5.25	4.09	3.59
808827	MAX232ACSE+♠	SOIC-16	+5V pwrd multi-ch drvr/recvr, C-temp	5.25	4.13	3.59
882390	MAX233ACWP♠	SOIC-20	+5V pwrd multi-ch drvr/recvr, C-temp	9.79	8.06	7.34
318959	MAX232CPE⊕	DIP-16	5V, 200kbps, multichannel	2.89	1.77	1.49
1923608	MAX232CWE+♠	SOIC-16	+5V pwrd multi-ch drvr/recvr, C-temp	3.19	3.02	2.87
882293	MAX232ECPE	DIP-16	±15kV ESD-protected, +5V RS-232 trans.	4.15	3.08	2.73
809011	MAX238ENG♠	DIP-24	+5V powered multichnl RS-232 quad drv./rec.	★	Call	Call
882971	MAX3221CAE+♠	SSOP-16	1µA supp. curr, 3-5.5V trans. w/ autoshutdown	2.59	2.13	1.94
1923641	MAX3232CSE+♠	SOIC-16	3-5V LP trans. using 4 ext. 0.01µF cap, C-temp	4.05	3.82	3.63
883333	MAX3232CUE+♠	TSSOP-16	3-5V LP trans. using 4 ext. 0.01µF cap, C-temp	3.79	3.12	2.84
1923667	MAX3232EEAE+♠	SSOP-16	±15kV ESD-protect 3-5V trans., C-temp	6.95	6.57	6.24
1225421	MAX3235ECPP+G36	DIP-20	±15kV ESD-protect, 3.3V/5V dual trans.	5.85	5.56	5.27

★ Please call or visit our website for minimum order quantity and pricing

NXP / PHILIPS RS-232 Drivers/Receivers NEW

Part No.	Product No.	Pkg.	Description	1	10	100
917257	MC145406D♠	SOIC-16	EIA-232-D/V.28 drvr/recvr, C-temp	$1.05	$.86	$.69
917273	MC145406N	DIP-16	EIA-232-D/V.28 drvr/recvr, C-temp	.79	.73	.67

TEXAS INSTRUMENTS RS-232 Drivers/Receivers NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
827569	MAX202CD	SOIC-16	±15kV ESD 5V dual line drvr/recvr, C-temp	$.79	$.72	$.68
903277	MAX232IN	DIP-16	Dual EIA-232 drivers/receivers	.55	.483	.455
758962	SN75C1406DW	SOIC-16	Triple low-power drivers/receivers	.75	.70	.525
828043	MC1488N	DIP-14	Quad line drivers	.54	.431	.323
903525	MC1489AN	DIP-14	Quad line receivers	✳	.181	.17
903541	MC1489N	DIP-14	Quad line receivers	✳	.181	.17
903306	MAX3221IDB♠	SSOP-16	3-5.5V sngl RS-232 line drvr/rec w/ ±15kV ESD	1.29	1.20	1.13
903331	MAX3222CPW♠	TSSOP-20	3-5.5V multich RS-232 line drvr/rec w/ ±15kV ESD	2.25	2.05	1.93
1923675	MAX3243CDBR♠	SSOP-28	±15kV ESD 3-5.5V multi-ch line drvr/recvr, C-temp	✳	1.07	1.02
758153	SN75107BN♠	DIP-14	Dual line receivers	✳	.241	.227
820341	SN75110AN♠	DIP-14	±5V, Dual line drivers	✳	.287	.273
820391	SN75118N♠	DIP-16	Differerential line receivers	3.99	3.21	3.10
820447	SN75150P	DIP-8	±12V, Dual line drivers	1.15	.98	.78
758170	SN75155D	SOIC-8	±12V, Line driver & receiver	.75	.67	.503
758196	SN75155P♠	DIP-8	±12V, Line driver & receiver	.75	.67	.63
758217	SN75158P♠	DIP-8	Dual differential line driver	2.85	2.65	2.50
758233	SN75160BDW♠	SOIC-20	Gen. purpose octal inrterface bus trans.	1.25	1.16	1.09
758250	SN75160BN♠	DIP-20	Gen. purpose octal inrterface bus trans.	1.25	1.16	1.09
758268	SN75173D♠	SOIC-16	Quad differential line receivers w/ 3-st	1.15	1.03	.97
758276	SN75173N♠	DIP-16	Quad differential line receivers w/ 3-st	1.15	1.03	.97
758292	SN75175D♠	SOIC-16	Quad differential line receivers w/ 3-st	.55	.483	.455
758321	SN75175N	DIP-16	Quad differential line receivers w/ 3-st	.55	.483	.455
758348	SN75176AD	SOIC-8	Differential bus transceivers	.77	.58	.435
758364	SN75176AP	DIP-8	Differential bus transceivers	.78	.57	.42
758381	SN75176BD♠	SOIC-8	Differential bus transceivers	✳	.29	.273
758401	SN75188D	SOIC-14	±9V, Quad line drivers	.45	.27	.203
758428	SN75188N	DIP-14	±9V, Quad line drivers	.45	.27	.203
758997	SN75C188N♠	DIP-14	±12V, Quad low-power line drivers	✳	.319	.298
758461	SN75189AN	DIP-14	Quad line receivers	.45	.27	.203
758487	SN75189D	SOIC-14	Quad line receivers	.45	.27	.203
758508	SN75189N♠	DIP-14	Quad line receivers	✳	.27	.252

DALLAS SEMICONDUCTOR RS-232 Transceiver Chip

Part No.	Product No.	Pkg.	Description	1	10	100
866584	DS275	DIP-8	Line powered RS-232 trans. chip	$3.99	$3.83	$3.67

intersil RS-232 Drivers/Receivers NEW

Part No.	Product No.	Pkg.	Description	1	10	100
875288	HIN202ECBNZ♠	SOIC-16	±15kV ESD 5V dual trans/recvr, C-temp	$.75	$.67	$.63
875309	HIN202EIBN♠	SOIC-16	±15kV ESD 5V dual trans/recvr, I-temp	.85	.76	.71
875341	HIN232ACBN♠	SOIC-16	5V hi-spd dual trans/recvr, I-temp	.65	.58	.538
875384	HIN232ACP	DIP-16	5V hi spd RS-232 transmitter/receiver	1.06	.79	.66
875448	HIN232CP	DIP-16	5V hi spd RS-232 transmitter/receiver	.49	.459	.43
1922242	ICL232CPE♠	DIP-16	5V dual transmitter/receiver, C-temp	2.95	2.78	2.64

ON Semiconductor® RS-232 Receivers

Part No.	Product No.	Pkg.	Description	1	10	100
870882	MC1489AP	DIP-14	Quad line EIA-232D receivers	$.36	$.332	$.301
870920	MC1489P	DIP-14	Quad line EIA-232D receivers	.33	.314	.31

RS-232 Drivers/Receivers

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
142535	HIN202CP	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps	$2.65	$2.10	$1.57
244232	MAX202CSE	SOIC-16	5V, 120kbps, w/ 0.1µF ext. caps	1.65	1.38	1.03
244241	MAX202EPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps	5.79	5.08	4.83
24811	MAX232CPE⊕ *	DIP-16	5V, 200kbps, multichannel	2.59	2.07	1.45
106147	MAX232CWE	SOIC-16	5V, 120kbps, multichannel	2.65	1.63	1.23
256401	MAX232DR	SOIC-16	5V, 120kbps, dual driver/receiver	.74	.63	.51
106155	MAX232EPE⊕	DIP-16	5V, 120kbps, multichannel	3.25	1.96	1.47
106163	MAX233CPP	DIP-20	5V, 120kbps, multichannel	6.19	4.99	4.66
106171	MAX235CPG	DIP-24	5V, 120kbps, multichannel	13.39	10.62	7.15
106180	MAX238CNG	DIP-24	5V, 120kbps, multichannel	6.09	3.72	2.79
23157	DS1488N*	DIP-14	15V, quad line driver	.35	.299	.202
16379	DS14C89N	DIP-14	5V, quad line receiver	1.10	.94	.70
276859	MAX3232CDR	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	1.25	1.15	1.03
276867	MAX3232CSE	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	3.29	2.66	1.99
235301	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/receiver	2.55	1.96	1.47
23181	SN75189N*	DIP-14	5V, quad line receiver	.23	.196	.147
25099	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/receiver	1.95	1.75	1.59

*10 pcs. in Linear series IC cabinet kit, pg 32

National Semiconductor RS-422/485 Drivers/Receivers

Part No.	Product No.	Pkg.	Description	1	10	100
832042	DS1487N/NOPB♠	DIP-8	LP RS-485 1/4 unit load multipoint trans.	$2.89	$2.13	$1.57
832077	DS14C232CM/NOPB♠	SOIC-16	LP +5V powered TIA/EIA-232 dual drvr/recr	3.35	2.50	1.87
889399	DS14C232TM♠	SOIC-16	LP +5V powered TIA/EIA-232 dual drvr/recr	2.89	2.71	2.07
890963	DS3695AM♠	SOIC-8	Multipoint RS-485/422 trans	1.59	1.19	.89
891026	DS3695N/NOPB	DIP-8	Multipoint RS-485/RS-422 trans.	1.16	.88	.81
832931	DS3696N/NOPB	DIP-8	Multipoint RS-485/RS-422 trans./recr.	2.49	1.85	1.39
833088	DS75176BM/NOPB	SOIC-8	Multipoint RS-485/RS-422 trans.	.82	.74	.56
891149	DS75176BN	DIP-8	Multipoint RS-485/RS-422 trans.	1.65	1.40	1.05
833176	DS75176BTN	DIP-8	Multipoint RS-485/RS-422 trans.	1.65	1.20	.90
833109	DS75176BN/NOPB♠	DIP-8	Multipoint RS-485/422 trans	1.65	1.20	.88
833361	DS8923AN/NOPB♠	DIP-16	3-st. RS-422 dual diff. line drvr/recr pair	2.45	1.80	1.34

RS-422/485 Drivers/Receivers

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
299807	LTC485CN8	DIP-8	RS-485 LP transceiver, 5V	$1.35	$1.17	$.91
244195	MAX1487CP	DIP-8	RS-485/422 LP transceiver, 12V	2.25	1.45	1.22
39571	AM26LS30	DIP-16	RS-422/423 line driver, 5V	2.39	2.05	1.76
39589	AM26LS31CN	DIP-16	RS-422 quad diff. line driver, 5V	.68	.56	.42
25232	MC3486P⊕	DIP-16	RS-422/423 quad diff. line receiver, 5V	.62	.527	.395
25259	MC3487P	DIP-16	RS-422/423 quad line driver, 5V	.72	.61	.458
50956	SN75175N	DIP-16	RS-422/423 quad diff. line receiver, 5V	.96	.74	.55
50964	SN75176BN	DIP-8	RS-422 diff. line bus transceiver, 5V	.65	.55	.45

MAXIM RS-422/485 Transceiver

Part No.	Product No.	Pkg.	Description	1	10	100
311837	MAX1480BEPI	DIP-28	RS-485/422 data interface, 5V	$32.49	$27.62	$20.72

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

RS-422/423/485 Drivers/Receivers & Interface

Color Code Legend: New Sale Lower$ QtySave

Additional ICs are available online at www.Jameco.com/Semiconductors

Texas Instruments RS-422/423/485 NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
892336	AM26C31CD♻♠	SOIC-16	RS-422 Quad differential line driver	$.55	$.471	$.444
1225501	AM26LS31CN♻♠	DIP-16	Quad differential line driver, C-temp	.74	.62	.49
892379	AM26C31ID♻♠	SOIC-16	RS-422 Quad differential line driver (I-temp)	.78	.59	.45
892459	AM26C32CD♻♠	SOIC-16	RS-422 Quad differential line receiver	.55	.507	.478
816974	AM26C32CN♻♠	DIP-16	RS-422 Quad differential line receiver	1.16	.98	.59
892491	AM26C32ID♻♠	SOIC-16	RS-422 Quad differential line receiver (I-temp)	.61	.55	.52
892601	AM26LS31CD♻	SOIC-16	RS-422 Quad differential line driver	.74	.63	.472
892643	AM26LS32ACD♻	SOIC-16	RS-423 Quad differential line receivers	.74	.62	.465
892723	AM26LS33ACN♻	DIP-16	RS-423 Quad differential line receivers	.59	.477	.43
909441	SN65176BD♻♠	SOIC-8	RS-485 Differential bus transceivers	.52	.41	.387
909741	SN65HVD10D♠	SOIC-8	RS-485 3.3V transceivers	3.89	3.14	3.04
909783	SN65HVD11D♠	SOIC-8	RS-485 3.3V transceivers	3.79	3.05	2.95
909821	SN65HVD12D♻♠	SOIC-8	3.3V RS-485 transceivers	3.69	2.96	2.86
909901	SN65HVD231D♻♠	SOIC-8	3.3V CAN transceivers	2.99	2.41	2.33
909943	SN65HVD232D♠	SOIC-8	3.3V CAN transceivers	2.89	2.32	2.24
910012	SN65HVD24D♠	SOIC-8	Ext. common-mode RS-485 trans	4.69	4.35	4.09
1495842	SN65HVD3082ED♻♠	SOIC-8	LP RS-485 transceiver, C-temp	2.09	1.70	1.49
829601	SN65LBC176P♻♠	DIP-8	RS-485 Differential bus transceiver	1.89	1.51	1.26
829644	SN65LBC179AD♠	SOIC-8	RS-485 Low-power diff. line driver/receiver	2.29	1.82	1.52
910186	SN65LBC184D♻♠	SOIC-8	RS-485 Diff. trans. w/ transient volt suppression	2.89	2.32	2.24
759092	SN75HVD10D♻♠	SOIC-8	3.3V RS-485 transceivers	2.59	2.53	2.47
758153	SN75107BN♻♠	DIP-14	Dual line receiver	✳	.241	.227
820341	SN75110AN♻♠	DIP-14	Dual line driver	✳	.287	.273
820391	SN75118N♻♠	DIP-16	Differential line transceiver	3.99	3.21	3.10
758217	SN75158P♻♠	DIP-8	RS-422 Dual differential line driver	2.85	2.65	2.50
758233	SN75160BDW♻♠*	SOIC-20	Octal general purpose interface bus trans	1.25	1.16	1.09
758250	SN75160BN♻♠*	DIP-20	RS-485 Octal general purpose interface bus trans	1.25	1.16	1.09
758268	SN75173D♻♠	SOIC-16	RS-422/423 Quad differential line receiver	1.15	1.03	.97
758276	SN75173N♻♠	DIP-16	RS-422/423 Quad differential line receiver	1.15	1.03	.97
758292	SN75175D♻♠	SOIC-16	RS-422/423 Quad differential line receiver	.55	.483	.455
758321	SN75175N♻	DIP-16	RS-422/423 Quad differential line receiver	.55	.483	.455
758348	SN75176AD♻	SOIC-8	RS-422 Differential bus transceiver	.77	.58	.435
758364	SN75176AP♻	DIP-8	RS-422 Differential bus transceiver	✳	.29	.273
758381	SN75176BD♻♠	SOIC-8	RS-422 Differential bus transceiver	✳	.29	.273
1054060	SN75176BDR♻♠	SOIC-8	Differential bus transceiver, C-temp	✳	.23	.207
821028	SN75LBC179P♻	DIP-8	LP differential driver & receiver pair	1.55	1.45	1.36
1055644	SN75ALS180D♻♠	SOIC-14	Differential drvr & recvr pairs, C-temp	1.69	1.45	1.22
1055661	SN75ALS180N♻♠	DIP-14	Differential drvr & recvr pairs, C-temp	★	Call	Call
759130	SN75LBC184D♻♠	SOIC-8	RS-485 Diff. trans.w/ transient volt suppression	3.15	2.90	2.73
758840	SN75ALS192D♻♠	SOIC-16	Quad differential line drivers	✳	.295	.276
758903	SN75ALS193N♻	DIP-16	Quad differential line receiver	.46	.418	.392
764385	UA9637ACP♻	DIP-8	RS-422/423 Dual differential line receiver	.74	.62	.465
764406	UA9638CP♻♠	DIP-8	RS-422 Dual high-speed differential line driver	✳	.295	.275

*IEEE 488 (GPIB) ★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments IEEE-1394 NEW

Part No.	Product No.	Pkg.	Description	1	10	100
764035	TSB41AB3PFP♻♠	HTQFP-80	IEEE 1394a-2000 3-port cable trans/arbiter	$5.95	$5.55	$5.17

Cypress Transmitter/Receiver NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1409588	CY7B923-JI♻♠	PLCC-28	HOTLink® transmitter/rcvr., I-temp	$84.85	$80.59	$75.55

Avago Technologies Interface Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1551040	HCTL-2017♻	DIP-16	Quadrature 33MHz, 16-bit counter	$18.69	$17.43	$16.34
1551058	HCTL-2017-PLC♻	PLCC-18	Quadrature 14MHz, 16-bit counter	22.29	17.82	15.17
1551103	HCTL-2032-SC♻	SOIC-32	Quadrature decoder output/32-bit countr.	9.59	8.61	7.75

Maxim Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
804869	ICM7212AMIPL	DIP-40	4-digit display decoder/driver, I-temp	$5.35	$4.11	$3.74
312160	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	8.95	6.95	4.65

National Semiconductor Interface Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1921119	CLC007AJE/NOPB♠	SOIC-8	Serial digital cable drv w/ dual outputs	$10.69	$10.10	$9.60
1921127	CLC014AJE/NOPB♠	SOIC-14	Adaptive cable equalzr for hi-spd recovery	25.25	23.88	22.68
889831	DS26C31TM♠	DIP-16	CMOS quad 3-st diff line driver	1.55	1.31	.95
832288	DS26C31TM/NOPB♻	SOIC-16	CMOS quad 3-st. diff. line driver	.98	.83	.63
832317	DS26C31TN/NOPB♻♠	DIP-16	CMOS quad 3-st. diff. line driver	2.55	1.87	1.37
889920	DS26C32ATM♠	SOIC-16	Quad diff line receiver	1.75	1.29	.96
889962	DS26C32ATM/NOPB♻♠	SOIC-16	Quad diff. line receiver	2.05	1.53	1.11
890007	DS26LS31CM♠	SOIC-16	Quad high-speed diff line driver	1.65	1.23	.90
832376	DS26LS31CM/NOPB♻♠	SOIC-16	Quad high-speed diff. line driver	.79	.66	.57
832405	DS26LS31CN/NOPB♻♠	DIP-16	Quad high-speed diff. line driver	1.09	.92	.78
832448	DS26LS32ACM/NOPB♻	SOIC-16	Quad differential line receivers	1.65	1.12	.93
890218	DS26LV31TM/NOPB♻♠	SOIC-16	3V enhanced CMOS quad diff. line drvr	1.85	1.37	1.00
890269	DS26LV32ATM♠	SOIC-16	3V enchanced CMOS quad diff line rcvr	1.75	1.39	1.03
832561	DS26LV32ATM/NOPB♻♠	SOIC-16	3V enhanced CMOS quad diff. line rcvr	1.85	1.36	1.02
890509	DS34C86TM♠	SOIC-16	Quad CMOS diff line receiver	1.69	1.27	.96
832683	DS34C86TM/NOPB♻♠	SOIC-16	Quad CMOS diff line receiver	1.75	1.29	.96
890710	DS34LV86TM/NOPB♻♠	SOIC-16	3V enchanced CMOS wuad diff. line rcvr	2.49	1.85	1.43
890584	DS34C87TM♠	SOIC-16	CMOS quad 3-st diff line driver	1.55	1.36	.85
891341	DS89C21TM♠	SOIC-8	Diff CMOS line driver/receiver pair	1.55	1.16	.87
891510	DS90C031TM♠	SOIC-16	LVDS quad CMOS diff line driver	3.09	2.36	2.21
892301	DS90LV031ATM♠	SOIC-16	3V LVDS quad CMOS diff line reciever	2.75	2.04	1.57
891552	DS90C032BTM♠	SOIC-16	LVDS quad CMOS diff line reciever	3.19	2.51	1.84
891587	DS90C032TM♠	SOIC-16	LVDS quad CMOS diff line reciever	3.09	2.36	2.21

ON Semiconductor® Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
870065	MC1413D	SOIC-16	Hi-volt, hi-cur dar transistor arrays	$.62	$.506	$.38
792407	MC1413PG♻	PDIP-16	Hi-volt, hi-cur dar transistor arrays	.86	.74	.56

SHARP Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
1623859	LZ9FC23♻♠	QFP-48	Driver IC for 270/320/410/470k B/W CCD	$6.39	$4.73	$4.31

Texas Instruments Interface Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
759210	TFP410PAP♻♠	HTQFP-64	TI Panel Bus™ digital transmitter	$5.95	$5.55	$5.17

Interface Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
243379	MM5453N	DIP-40	3-10V, LCD driver	$3.89	$3.56	$3.24
314691	ICL7136CPL⊕	DIP-40	15V, 3 1/2 digit LCD driver	5.79	4.92	3.69
241824	MC14489BP	DIP-20	5V, 7-segment LED display driver	3.89	3.26	3.10
277940	SN75179BP♻	DIP-8	5V, diff line driver/receiver	1.08	.91	.68
51027	SN75451AN⊕	DIP-8	7V, dual peripheral AND driver	.36	.29	.28
277974	SN75183N♻	DIP-14	5V, dual diff line driver	1.75	1.58	1.48
51131	SN75492P	DIP-14	5V, HEX digit driver	4.95	4.45	3.99

Texas Instruments Line Driver

Part No.	Product No.	Pkg.	Description	1	10	100
1061551	THS6012CDWP♻	SOIC-20	500mA dual diff. line driver	$7.05	$6.63	$6.13

National Semiconductor Motor/Display Drivers

Part No.	Product No.	Pkg.	Description	1	10	100
25216	MC3479P	DIP-16	7.2-16.5V, stepper motor driver	$3.79	$3.22	$2.55
24230	LM3914N	DIP-18	25V, dot/bar display driver	2.39	2.05	1.94
300003	LM3914N-1⊕	DIP-18	25V, dot/bar display driver	1.85	1.57	1.18
901010	LM3914N-1/NOPB♻	DIP-18	25V, dot/bar display driver	1.55	1.40	1.31
246625	LM3914V	PLCC-20	25V, dot/bar display driver	2.79	2.12	1.59
24256	LM3915N	DIP-18	25V, dot/bar display driver	2.65	1.94	1.43
901061	LM3915N-1	DIP-18	3dB/step, 30db range dot/bar display driver	2.55	1.92	1.47
839885	LM3915N-1/NOPB♻	DIP-18	3dB/step, 30db range dot/bar display driver	2.59	1.94	1.43
24272	LM3916N	DIP-18	3-25V, dot/bar display driver	2.25	1.91	1.44
901108	LM3916N-1	DIP-18	25V, dot/bar display driver	2.59	1.94	1.43

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Interface, Clock Chips, Quick Switches & UART/DUARTs

Additional ICs are available online at www.Jameco.com/Semiconductors

AVAGO TECHNOLOGIES Motion Control

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1551015	HCTL-1100	DIP-40	Gen. purp motion control IC, I-temp	$47.45	$43.54	$41.44

e-lab Digital Interface

Part No.	Product No.	Pkg.	Description	1	10	100
171951	EDE702⊕	DIP-18	Serial LCD interface	$8.75	$7.20	$5.65
321710	EDE707⊕	DIP-28	Octal 7-segment LED display decoder	8.99	7.65	6.75
171969	EDE1144⊕	DIP-18	Keypad encoder	6.99	5.95	4.46
141532	EDE1200⊕	DIP-18	Unipolar stepper motor controller	8.29	6.90	5.90
157526	EDE1204⊕	DIP-18	Bipolar stepper motor controller	7.55	6.35	5.35
321736	EDE2008⊕	DIP-18	Pushbutton debouncer w/ 8-independent chan	5.99	5.09	3.82
321761	EDE2208/P⊕	DIP-18	8-pushbutton momentary to toggle	5.95	5.06	3.80

5000 Series & Clock Chips

Part No.	Cross Ref.	Pkg.	Description	1	10	100
32803	TCM5089N	DIP-16	Touch tone generator	$5.25	$4.75	$4.05
26171	MM5450N	DIP-40	LED display driver	3.49	2.97	2.23
27422	LM555CN **	DIP-8	Timer	.29	.23	.20
126797	LMC555CN*	DIP-8	CMOS timer	.66	.61	.55
24328	LM556N*	DIP-14	Dual timer	.82	.60	.45
25101	MC146818♣	DIP-24	Real time clock with RAM	9.95	8.94	6.71
10567	AM9513APC♣	DIP-40	Real time clock	39.95	33.96	25.47

*10 pcs./**20 pcs. in Linear series IC cabinet kit, pg 32 ♣ Pull = Extra Savings

DALLAS SEMICONDUCTOR Delay Lines

Part No.	Product No.	Pkg.	Description	1	10	100
861687	DS1100LZ-20♠	SOIC-8	3.3V 5-tap economy timing element, 20ns	$6.75	$5.16	$4.53

EPSON 4-Bit Real Time Clocks

Part No.	Product No.	Pkg.	Description	1	10	100
1911404	RTC-72423B	SOIC-24	4-bit real time clock module	$7.45	$6.19	$4.50
1911367	RTC-72421B♠	DIP-18	4-bit real time clock module	6.99	5.82	4.22
1911341	RTC-72421A♠	DIP-18	4-bit real time clock module	7.55	6.09	4.56
1911324	RTC-62421A♠	DIP-18	4-bit real time clock module	8.49	7.07	5.14

DALLAS SEMICONDUCTOR Clock Chips

Part No.	Product No.	Pkg.	Description	1	10	100
780481	DS1302+	DIP-8	Trickle charge timekeeping chip, C-temp	$3.89	$3.31	$3.09
863199	DS1305E♠	TSSOP-20	Serial alarm real time clock, C-temp	4.99	3.98	3.29
863308	DS1307♠	DIP-8	5V I²C real time clock, 64 x 8 serial, C-temp	3.59	2.79	2.43
863383	DS1315-5♠	DIP-16	5V phantom time clip	15.45	11.66	10.15
780609	DS1337C	SOIC-16	I²C serial real time, I-temp	3.45	3.29	3.15
781151	DS1688S♠	SOIC-28	3-5V serialized real time w/ NV RAM, C-temp	7.39	6.71	6.10
781177	DS1693♠	DIP-28	3-5V serialized real time w/ NV RAM, C-temp	19.25	14.66	12.88
1194556	DS12887+♠	MOD-24	Real time clock, C-temp	7.85	6.26	5.87

CYPRESS Programmable Clock & Buffers

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
778664	CY22381FXC♠	SOIC-8	3 PLL gen purp Flash prog clk gen, C-temp*	$3.75	$3.52	$3.28
859843	CY22392FC♠	TSSOP-16	3 PLL gen purp Flash prog clk gen, C-temp**	4.99	4.75	4.52
859931	CY22393FI♠	TSSOP-16	3 PLL serial-prog Flash prog clk gen, I-temp ***	6.79	6.45	6.12
859991	CY2292F♠	SOIC-16	3 PLL gen purp EPROM prog clk gen., C-temp**	2.99	2.41	2.33
860027	CY2292FI♠	SOIC-16	3 PLL gen purp EPROM prog clk gen, I-temp**	2.99	2.95	2.90
778736	CY2304SXC-1♠	SOIC-8	3.3V zero delay buffer, C-temp	3.05	2.49	2.29
860254	CY2305SC-1♠	SOIC-8	Low cost 3.3V zero delay buffer, C-temp	1.69	1.52	1.35
860289	CY2305SC-1H♠	SOIC-8	Low cost 3.3V zero delay buffer, C-temp	1.85	1.68	1.51
860369	CY2305SXC-1♠	SOIC-8	Low cost 3.3V zero delay buffer, C-temp	1.25	1.03	.86
860449	CY2305SXI-1♠	SOIC-8	Low cost 3.3V zero delay buffer, I-temp	1.25	1.11	1.03
860406	CY2305SXC-1H♠	SOIC-8	Low cost 3.3V zero delay buffer, I-temp	.75	.70	.65
1181472	CY2305SXC-1T♠	SOIC-8	Low cost 3.3V zero delay buffer, I-temp	★	Call	Call
860879	CY2309ZC-1H♠	TSSOP-16	Low cost 3.3V zero delay buffer, C-temp	2.85	2.32	2.13

* 3 outputs ** 6 outputs *** 6 CMOS outputs

★ Please call or visit our website for minimum order quantity and pricing

IDT Clock Buffer

Part No.	Product No.	Pkg.	Description	1	10	100
1594795	2305-1DC♠	SOIC-8	3.3V zero delay clock buffer	$.61	$.57	$.56

IDT High Speed Quick Switches

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
1677347	QS3244Q♠	QSOP-20	CMOS 8-bit bus switch	✳	$.31	$.29
1677398	QS3245Q♠	QSOP-20	CMOS 8-bit bus switch	✳	.31	.29
1677478	QS3253Q♠	QSOP-16	Dual 4:1 mux/demux	✳	.31	.29
1677531	QS3257Q♠	QSOP-16	Quad 2:1 mux/demux	✳	.32	.301
1677638	QS32X245Q2♠	QVSOP-40	Double width bus switch	1.01	.96	.92
1677718	QS32XVH245Q2♠	QVSOP-40	2.5/3.3V 16-bit hi bandwidth bus switch	1.15	1.08	1.04
1677911	QS34X245Q3♠	Millipaq-80	32-bit multiwidth™ bus switch	1.07	1.01	.95
1678008	QS34XVH245Q3♠	QVSOP-80	2.5/3.3V 32-bit hi bandwidth bus switch	1.95	1.80	1.73
1678041	QS3861PA♠	TSSOP-24	10-bit bus switch w/ flow-thru output	.62	.57	.538
1678059	QS3861Q♠	QSOP-24	10-bit bus switch w/ flow-thru output	✳	.34	.323

DALLAS SEMICONDUCTOR EconoResets

Part No.	Product No.	Pkg.	Description	1	10	100
780262	DS1233-5+♠	TO-92	5V EconoReset	$1.32	$1.00	$.90
1193609	DS1233-10+	TO-92	5V EconoReset	1.35	1.01	.90
780271	DS1233AZ-10+♠	SOT-223	3.3V EconoReset	2.09	1.64	1.47
1193781	DS1233D-5+♠	TO-92	5V EconoReset	1.39	1.19	1.08
781548	DS1833-5+♠	TO-92	5V EconoReset	1.75	1.31	1.18

NXP / PHILIPS UART/DUARTs

Part No.	Product No.	Pkg.	Description	1	10	100
918647	SC26C92C1A♠	PLCC-44	Dual asynch recv/transmitter DUART, C-temp	$6.25	$5.68	$5.17
918663	SC28C94A1A♠	PLCC-52	Quad univ. asynch recr/transmitter QUART	29.45	28.02	26.69
918727	SC28L92A1A♠	PLCC-44	3.3/5V dual universal asynch rec./trans. DUART	11.45	10.39	9.91
918786	SCC2691AC1D24♠	SOIC-24	Universal asynch recv./trans. UART	5.35	5.05	4.74
918815	SCC2692AC1A44♠	PLCC-44	Dual asynch rec./trans. DUART, C-temp	6.65	6.33	6.03
918874	SCC2698BC1A84♠	PLCC-84	Enhanced octal univ. asynch recv./trans. UART	34.19	32.55	31.00

MAXIM UART

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
810687	MAX3100EEE+♠	QSOP-16	SPI/microwire compatible, I-temp	$9.49	$7.54	$6.50

TEXAS INSTRUMENTS UARTs

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
760229	TL16C550CIPT♠	LQFP-48	Asynch comm. element w/ autoflow control	$4.79	$4.11	$3.86
760245	TL16C550CPFB♠	TQFP-48	Asynch comm. element w/ autoflow control	3.35	2.69	2.59
760317	TL16C752BPT♠	LQFP-48	3.3V dual UART w/ 64-byte FIFO	7.05	6.46	6.00
1065199	TL16C754BPN♠	LQFP-80	Quad UART w/ 64-byte FIFO	17.08	15.29	13.80

UARTs

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43158	6402♣	DIP-40	5V CMOS	$7.49	$6.42	$5.99
27570	NS16C450N♣	DIP-40	Asynch. communication element, 5V	3.45	2.71	2.03
27596	NS16550AN♣	DIP-40	Asynch. communication element, 5V	6.49	4.86	3.64
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	2.79	2.27	1.79
905918	PC16552DV♠	PLCC-44	Dual asynch. recv./transmitter w/ FIFO	8.45	7.71	7.71

♣ Pull = Extra Savings

NXP / PHILIPS MUX/DEMUX

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	100
851286	HEF4052BTD♠	SOIC-16	Dual 4-channel analog MUX/DEMUX	✳	$.387	$.348
917003	HEF4053BTD♠	SOIC-16	Triple 2-channel analog MUX/DEMUX	✳	.204	.178

MAXIM Decoder/Driver

Part No.	Product No.	Pkg.	Description	1	10	100
804869	ICM7212AMIPL	DIP-40	4-digit display decoder/driver	$5.35	$4.11	$3.74

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Analog Switches, A/D, D/A Converters & Power Management

Color Code Legend: New Sale Lower$ QtySave

Additional ICs are available online at www.Jameco.com/Semiconductors

Encoders/Decoders

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
123730	HT12E	DIP-18	Encoder, 2.4-12V	$1.69	$1.49	$1.29
123748	HT12D	DIP-18	Decoder, 2.4-12V	1.69	1.49	1.29
296711	MC145027P	DIP-16	Decoder, 4.5-18V	2.95	2.65	2.40
1585047	HSDL-7001$100	SOIC-16	IR 3/16 encoder/decoder (Avago)	3.39	2.77	2.61

Stepper Motor Drivers/Controllers

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
924545	L293DD	SOIC-20	Push pull 4-ch driver w/ diodes	$5.29	$4.63	$3.45
288067	L297/1	DIP-20	Stepper motor controller, 5V	5.19	4.99	4.46
245403	L298N	MW-15	Dual full-bridge driver, 46V	3.05	2.65	2.45
288091	L6202	DIP-18	DMOS full bridge driver, 48V	5.69	5.12	3.84
288104	L6203⊕	MW-11	DMOS full bridge driver, 48V	9.99	9.32	6.99

KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.



175901

175901: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
- Programmable accelerations and minimum step rates

323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Description	Package	1	10	100
175901	Motion control chip for stepper motors	DIP-28, 0.3"	$25.49	$21.53	$19.29
323934	SC servo motion control IC	DIP-28, 0.3"	32.95	30.25	28.33

MAXIM Analog Switches

Part No.	Product No.	Pkg.	Description	1	10	100
807621	MAX318CSA♠	SOIC-8	SPST (NO) CMOS analog switch, C-temp	$3.59	$2.67	$2.43
810249	MAX365CPE♠	DIP-16	Quad SPST (NO) analog switch, C-temp	★	Call	Call
810994	MAX4066ACSD♠	SOIC-14	Low-volt, quad SPST CMOS analog switch	★	Call	Call
812455	MAX4524EUB♠	µMAX-10	Low-volt, sngl supply MUX & switch, I-temp	★	Call	Call
812551	MAX4543EUA♠	µMAX-8	Low-volt, sngl supp. dual SPST (NO/NC), I-temp	★	Call	Call
812738	MAX4601EAE♠	SSOP-16	2.5Ω quad SPST (NC) CMOS, I-temp	★	Call	Call
812851	MAX4622CPE♠	DIP-16	Dual 5Ω SPDT (2 NC/2 NO), I-temp	★	Call	Call
812893	MAX4623CSE♠	SOIC-16	Dual 5Ω DPST (NO) analog switch, C-temp	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

MAXIM A/D & D/A Converters

Part No.	Product No.	Pkg.	Description	1	10	100
805132	MAX1138EEE	QSOP-16	4.5-5.5V LP 12-ch 2-wire serial 10-bit ADC	$8.25	$6.81	$6.20
805440	MAX1241AESA♠	SOIC-8	2.7V low-pwr 12-bit serial ADC (±1/2LSB) I-temp	18.19	13.25	12.06
814039	MAX500AEJE♠	DIP-16	CMOS quad serial interface 8-bit DAC (±1LSB) I-temp	★	Call	Call
814178	MAX505ACAG♠	SSOP-24	Quad 8-bit DAC w/ rail-to-rail volt (±1LSB)	★	Call	Call
814320	MAX509BCWP♠	SOIC-20	Quad serial 8-bit DAC w/ rail-to-rail (±1 1/2LSB)	14.09	10.69	9.72
814717	MAX521BCWG♠	SOIC-24	Quad/octal 2-wire ser 8-bit DAC w/ rail-to-rail (±2LSB)	★	Call	Call
814418	MAX5106EEE♠	QSOP-16	Non-volatile quad 8-bit DAC (I-temp)	★	Call	Call
1239110	MX7523JN+	DIP-16	8-bit CMOS multiplying DAC	5.79	5.24	4.76

★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments A/D & D/A Converters

Part No.	Product No.	Pkg.	Description	1	10	100
761248	TLC549IP	DIP-8	8-bit ADC w/ serial control	$2.75	$2.53	$2.39
823197	TLC0820AINP ♠	DIP-20	Adv. LINCMOS high-speed 8-bit ADC	4.45	3.59	3.52
891923	ADS5500IPAPP ♠	PAP-64	14-bit, 125MSPS ADC	127.35	118.41	111.56
761731	TLV5618ACD ♠	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ pwr dwn	10.55	9.78	9.22
824561	TLC7226CN	DIP-20	Quad 8-bit DAC	5.59	5.17	3.88

National Semiconductor A/D & D/A Converters NEW

Part No.	Product No.	Pkg.	Description	1	10	100
886307	ADC0802LCN	DIP-20	8-bit µP compatible ADC, ±1LSB, I-temp.	$6.19	$4.85	$3.91
828289	ADC0802LCN/NOPB♠	DIP-20	8-bit µP compatible A/D convtr (±1/2bit)	3.89	3.72	3.53
828342	ADC0804LCN/NOPB	DIP-20	8-bit µP compatible ADC (±1LSB)	2.45	1.84	1.70
886323	ADC0804LCWM	SOIC-20	8-bit µP compatible ADC (±1Bit)	2.15	1.86	1.42
828406	ADC0808CCN/NOPB	DIP-28	8-bit µP compatible ADC w/ 8-ch MUX (±1/2LSB)	4.65	4.16	3.38
830944	ADC0809CCN/NOPB♠	DIP-28	8-bit µP compatible ADC w/ 8-ch MUX (±1LSB)	2.99	2.25	2.08
831066	ADC0820CCN/NOPB	DIP-20	8-bit hi-spd µP, ADC w/ track/hold (±1LSB)	3.25	2.89	2.17
831200	ADC0832CCN/NOPB♠	DIP-8	8-bit serial I/O ADC w/ MUX (2 analog input)	2.65	2.02	1.54
889057	ADC0834BCN	DIP-14	8-bit serial I/O ADC w/ MUX (4 analog input)	3.35	2.56	2.35
889081	ADC0844CCN♠	DIP-20	8-bit µP, ADC w/ MUX options (4-ch, ±1LSB)	5.19	3.93	3.60
889111	ADC0848CCV♠	PLCC-28	8-bit µP, ADC w/ MUX options (8-ch, ±1LSB)	5.25	4.79	4.43
831859	DAC0800LCN/NOPB	DIP-16	8-bit, 100ns, ±4.5 to ±18V, 33mW	.97	.74	.68
831921	DAC0808LCM	SOIC-16	8-bit, 150ns, ±4.5 to ±18V, 33mW	1.55	1.20	.92
831955	DAC0808LCN/NOPB	DIP-16	8-bit, 150ns, ±4.5 to ±18V, 33mW	1.08	1.01	.94

A/D & D/A Converters

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43748	7106CPL⊕	DIP-40	A/D, 3 1/2-digit LCD/LED display, 9V	$2.55	$2.25	$1.69
43756	7107CPL⊕	DIP-40	A/D, 3 1/2-digit LCD/LED display, ±5V	2.95	2.40	2.05
875683	ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED display, 6V	3.29	3.06	2.87
290263	ICL7135CPI	DIP-28	A/D, 4 1/2-digit BCD output, 5V	5.55	4.53	3.40
10145	ADC0803LCN⊕	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel	4.29	3.10	2.69
10153	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel	1.99	1.75	1.39
10170	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel	4.39	3.99	3.09
10188	ADC0809CC	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel	3.05	2.68	2.07
10225	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5µs	3.19	2.41	2.22
116100	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32µs	1.79	1.63	1.48
277131	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-channel	11.69	9.21	7.58
115158	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3µs, 1-ch.	12.59	11.99	11.29
296690	AD7226KN	DIP-20	D/A, 8-bit, 2-12.5V, 4µs, 4-channel	18.19	17.17	15.95
14904	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.49	1.12	.83
14947	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.43	1.18	.75
128186	DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1µs	3.15	2.41	1.81
290976	TLV5628CN	DIP-16	D/A, 8-bit, 3V, 1MHz, 8-channel	4.99	4.05	3.15
290052	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	3.19	2.60	1.95

National Semiconductor Power Management NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1272649	LM3478MM/NOPB♠	MSOP-8	Hi-eff low-side N-ch contr. for switching reg.	★	Call	Call
902602	LM78S40CN	DIP-16	Universal switching reg. subsystem	1.01	.94	.88

★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments Power Management DC-DC Convtr.

Part No.	Product No.	Pkg.	Description	1	10	100
906671	PT5101A♠	SIP-3	5V 1A pos step-down int. switch reg.	$11.89	$11.39	$10.79
906718	PT5101C♠	SIP-3	5V 1A pos step-down int. switch reg.	19.15	17.76	16.73
906751	PT5101N♠	SIP-3	5V 1A pos step-down int. switch reg.	19.15	17.76	16.73
1365052	PT5405C♠	SIP-5	3.3/5V input, 6A output SWIFT™ pwr module	30.69	29.15	27.33
906814	PT6212P♠	SIP-12	5V 2A adj. pos. step-down int. switch reg.	27.55	25.61	24.13
906890	PT6302N♠	SIP-12	5V 3A adj. pos. step-down int. switch reg.	30.95	28.75	27.09
906937	PT6304N♠	SIP-12	12V 3A adj. pos. step-down int. switch reg.	30.95	28.75	27.09
906970	PT6304R♠	SIP-12	12V 3A adj. pos. step-down int. sw. reg.	32.25	29.96	28.23
907016	PT78ST105H♠	SIP-3	5V 1.5A pos. step-down int. switch reg.	22.49	20.90	19.69
907059	PT78ST105S♠	SIP-3	5V 1.5A pos. step-down int. switch reg.	22.49	20.90	19.69
907091	PT78ST105V♠	SIP-3	5V 1.5A pos. step-down int. switch reg.	22.49	20.90	19.69
907139	PT78ST112V♠	SIP-3	12V 1.5A pos. step-down int. switch reg.	22.49	20.90	19.69
907171	PTH03000WAH♠	DIP-5	6A, 3.3V input non-isolated wide-output adj.	17.95	16.67	15.71
907219	PTH03000WAS♠	DIP-5	6A, 3.3V input non-isolated wide-output adj.	17.95	16.67	15.71
907331	PTH03050WAH♠	DIP-6	6A, 3.3V input non-isolated wide-output adj.	17.05	15.85	14.93
907374	PTH03050WAS♠	DIP-6	6A, 3.3V input non-isolated wide-output adj.	17.05	15.85	14.93
1366557	PTH04070WAH♠	DIP-5	3A, 3.3V/5V input adj switching reg	8.49	7.80	7.41
907446	PTH05000WAH♠	DIP-5	6A, 5V input non-isolated wide-output adj.	17.95	16.67	15.71
907606	PTH05020WAH♠	DIP-10	22A, 5V input non-isoltd wide-output adj.	37.05	34.43	32.44

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

DC to DC Converters/Controllers & Voltage Regulators

Additional ICs are available online at www.Jameco.com/Semiconductors

Texas Instruments Power Management DC-DC Conv. (Cont.)

Part No.	Product No.	Pkg.	Description	1	10	100
907681	PTH05050WAH ♻♠	DIP-6	6A, 5V input non-isoltd wide-output adj.	$17.05	$15.85	$14.93
907729	PTH05050WAS♠	DIP-6	6A, 5V input non-isolated wide-output adj.	17.05	15.85	14.93
907761	PTH05060WAH ♻♠	DIP-10	10A, 5V input non-isolated wide-output adj.	24.19	22.49	21.19
907809	PTH05060WAS♠	DIP-10	10A, 5V input non-isolated wide-output adj.	24.19	22.49	21.19
1366910	PTH08080WAH ♻♠	DIP-5	2.25A, wide input adj switching reg ...	8.19	7.80	7.41
1367091	PTH08T240WAZ ♻♠	DIP-11	4.5-14V input, 10A non-isoltd output adj pwr mod.	26.55	25.24	23.67
1367120	PTH12000WAH ♻♠	DIP-5	12V input, 6A non-isoltd output adj pwr mod.	18.79	16.97	15.92
907921	PTH12010WAS♠	DIP-10	12A, 12V input non-isoltd wide-output adj.	28.65	26.63	25.09
907964	PTH12020WAH ♻♠	DIP-10	18A, 12V input non-isoltd wide-output adj.	37.05	34.43	32.44
908001	PTH12020WAS♠	DIP-10	18A, 12V input non-isoltd wide-output adj.	37.05	34.43	32.44
829046	PTH12030WAH ♻♠	DIP-13	26A, 12V input non-isolttd wide-output adj.	41.99	39.02	36.77
1367947	PTH78000WAH ♻♠	DIP-5	1.5A, wide-input adj switching regulator	14.65	14.22	13.78
908174	PTH78020WAH ♻♠	DIP-7	6A, wide-input adj switching regulator	27.49	27.19	25.83
1367971	PTH78020WAS♠	DIP-7	6A, wide-input adj switching regulator	27.49	27.19	25.83
1368026	PTN78060WAS♠	DIP-7	3A, wide-input adj switching regulator	28.49	27.06	25.37
899917	DCP010505BP ♻♠	DIP-7	Mini 1W unreg. DC/DC converter	13.95	12.92	12.18
899950	DCP010505BP-U♠	SOP-7	Mini 1W unreg. DC/DC converter	13.95	12.92	12.18
900156	DCP010515DBP ♻♠	DIP-7	Mini 1W isolated unreg. DC/DC conv.	15.35	14.25	13.43
900199	DCP010515DBP-U♠	SOP-7	Mini 1W isolated unreg. DC/DC conv.	13.95	12.92	12.18
900236	DCP011515DBP ♻♠	DIP-7	Mini 1W isolated unreg. DC/DC conv.	15.35	14.25	13.43
900332	DCP020515DU♠	SOP-12	Mini 2W isolated unreg. DC/DC conv.	18.35	17.03	16.05
900375	DCP022415DU♠	SOP-12	Mini 2W isolated unreg. DC/DC conv.	18.35	17.03	16.05
900455	DCR010505U ♻♠	SOP-12	Mini 1W isolated reg. DC/DC conv. ..	16.39	15.22	14.34

intersil Voltage Converters NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1139258	ICL7660CBA♠	SOIC-8	1.5-10V Vrange CMOS volt convtr, C-temp ..	$.63	$.51	$.44
1922269	ICL7660CBAZ♠	SOIC-8	1.5-10V CMOS volt converter, I-temp ..	.64	.60	.57
1139469	ICL7660CPAZ ♻♠	DIP-8	1.5-10V Vrange CMOS volt convtr, C-temp	.66	.51	.46
1139549	ICL7660SCBA♠	SOIC-8	1.5-12V Vrange pos-neg CMOS volt conv, C-temp	1.79	1.39	.93
1140030	ICL7660SIPA♠	DIP-8	1.5-12V Vrange Super volt conv, I-temp ..	1.30	1.14	1.08

MAXIM Voltage Detection/Converters NEW

Part No.	Product No.	Pkg.	Description	1	10	100
881856	MAX1680ESA+	SOIC-8	125mA freq. select sw. cap volt conv., C-temp	$4.85	$3.99	$3.63
881266	ICL7660CSA♠	SOIC-8	Switched capacitor volt conv., C-temp ..	2.75	2.13	1.87
881338	ICL7665ACPA	DIP-8	µP volt monitor w/ dual volt detection, C-temp	4.59	3.52	3.21
881354	ICL7665ACSA	SOIC-8	µP volt monitor w/ dual volt detection ..	5.05	3.99	3.54

MAXIM DC-DC Controllers

Part No.	Product No.	Pkg.	Description	1	10	100
821909	MAX738AEPA+	DIP-8	5V step-down curr mode PWM DC-DC conv.	$8.25	$7.67	$7.19
806856	MAX1771ESA+	SOIC-8	12V or adj, hi-eff., step-up DC-DC contr, I-temp	6.05	4.98	4.54

ON Semiconductor® DC-DC Controller

Part No.	Product No.	Pkg.	Description	1	10	100
804041	UC3845BD1G ♻	SOIC-8	Hi performance curr mode controllers	$1.19	$1.04	$.92

National Semiconductor Shunt Voltage References NEW

Part No.	Product No.	Pkg.	Description	Pricing		
1283815	LM4040AIM3-5.0/NOPB ♻♠	SOT-23	Precision µpwr, ±0.1%, I-temp	★	Call	Call
1284412	LM4040BIM3-2.5/NOPB ♻♠	SOT-23	Precision µpwr, ±0.2%, I-temp	★	Call	Call
886972	LM4040CIM3-2.5/NOPB ♻♠	SOT-23	Precision µpwr, ±0.5%, I-temp	★	Call	Call
887182	LM4040DIM3-2.5/NOPB ♻♠	SOT-23	Precision µpwr, ±1%, I-temp	★	Call	Call
836107	LM4040DIM3-5.0♠	SOT-23	Precision µpwr, ±1%, I-temp	★	Call	Call
887271	LM4041AIM3-1.2♠	SOT-23	Precision µpwr, ±0.1%, I-temp	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

National Semiconductor Simple Switcher® Voltage Regulators

Part No.	Product No.	Pkg./Pins	Description	1	10	100
156566	LM2574N-5⊕	DIP-8	Step-down 5-voltage regulator	$1.85	$1.52	$1.16
835884	LM2574N-ADJ/NOPB ♻	DIP-8	500mA, adjustable step-down volt. reg.	1.39	1.25	1.14
279638	LM2575HVT-5.0	TO-220	Switcher 1A step-down V-reg, hi Vin range ..	3.95	3.74	3.52

National Semiconductor Simple Switcher® Volt. Reg. (Cont.)

Part No.	Product No.	Pkg./Pins	Description	1	10	100
835868	LM2574M-5.0/NOPB ♻♠	SOIC-14	Simple switcher 0.5A step-down volt. reg.	$2.45	$1.81	$1.33
894147	LM2574N-5/NOPB ♻	DIP-8	Simple switcher 0.5A step-down volt. reg.	2.39	1.79	1.33
836001	LM2575S-5/NOPB ♻♠	TO-263/5	Simple switcher 1A step-down volt. reg. ..	1.99	1.52	1.40
894534	LM2575T-5/NOPB ♻♠	TO-220/5	Simple switcher 1A step-down volt. reg. ..	1.89	1.45	1.33
894500	LM2575T-5.0/LB03♠	TO-220/5	1A, 5V step-down voltage regulator	2.95	2.35	1.73
836078	LM2575T-ADJ/NOPB ♻	TO-220/5	Simple switcher 1A step-down volt. reg.	1.89	1.73	1.48
192372	LM2576HVT-ADJ⊕	TO-220/5	Switcher 3A step-down V-reg, high Vin range ..	5.09	3.93	2.95
245569	LM2576T-5.0⊕	TO-220/5	Simple switcher 3A step-down voltage reg.	2.05	1.87	1.40
894770	LM2576T-12	TO-220/5	3A, 12V step-down voltage regulator	3.15	2.41	1.84
120977	LM2576T-ADJ⊕	TO-220/5	Simple switcher 3A step-down voltage reg.	2.55	1.91	1.77
1290839	LM2585S-ADJ/NOPB ♻♠	TO-263/5	Simple switcher 3A step flyback reg.	6.25	5.72	5.19
895051	LM2594M-5.0♠	SOIC-8	Simple switcher pwr conv 150kHz	2.99	2.29	2.11
895115	LM2594M-5.0/NOPB ♻♠	SOIC-8	Simple switcher pwr conv 150kHz	2.99	2.29	2.11
310391	LM2596S-5.0	TO-263/5	Simple switcher 3A step-down voltage reg.	4.25	3.61	2.71
895570	LM2672M-5.0♠	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	4.05	3.11	2.88
895617	LM2672M-ADJ♠	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	4.05	3.11	2.88
895650	LM2673S-3.3♠	TO-263/7	3A step-down volt. reg. w/ adj. current limit	4.55	3.50	3.24
895684	LM2673S-ADJ♠	TO-263/7	3A step-down volt. reg. w/ adj. current limit	4.55	3.50	3.24
895721	LM2674M-3.3♠	SOIC-8	Pwr. conv. hi-eff 500mA step-down volt reg. .	2.99	2.31	2.14
895772	LM2674M-5.0♠	SOIC-8	Pwr. conv. hi-eff 500mA step-down volt reg. .	2.99	2.31	2.14
1922841	LM2674M-5.0/NOPB♠	SOIC-8	Pwr. conv. hi-eff 500mA step-down volt reg.	3.19	3.00	2.85
895895	LM2675M-ADJ♠	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	3.89	2.98	2.76
895810	LM2675M-3.3♠	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	3.89	2.98	2.76
895852	LM2675M-5.0♠	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	3.89	2.98	2.76
1298751	LM2675M-5.0/NOPB ♻♠	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	3.95	3.01	2.76
896011	LM2676S-3.3/NOPB ♻♠	TO-263/7	Hi-eff. 3A step-down volt. reg.	4.35	3.34	3.09
896054	LM2676S-5.0♠	TO-263/7	Hi-eff. 3A step-down volt. reg.	4.35	3.33	3.09

National Semiconductor Low-Dropout Voltage Regulators

Part No.	Product No.	Pkg./Pins	Description	1	10	100
835577	LM1084IS-ADJ/NOPB ♻	TO-263/3	5A adj. LDO pos reg, I-temp	$2.69	$2.49	$2.11
835622	LM1085IS-ADJ/NOPB ♻♠	TO-263/3	3A adj. LDO pos reg, I-temp	1.95	1.82	1.62
893620	LM1085IT-ADJ/NOPB ♻♠	TO-220/3	3A adj. LDO pos reg, I-temp	2.09	1.90	1.61
893697	LM1086CS-3.3/NOPB ♻♠	TO-263/3	1.5A, 3.3V LDO pos reg, I-temp	1.65	1.55	1.46
893742	LM1086CS-ADJ/NOPB ♻♠	TO-263/3	1.5A adj. LDO pos reg, I-temp	1.65	1.55	1.46
835631	LM1086CT-ADJ/NOPB ♻♠	TO-220/3	1.5A adj. LDO pos reg, C-temp	1.65	1.52	1.30
893865	LM1086IS-ADJ♠	TO-263/3	1.5A adj. LDO posreg, I-temp	1.65	1.55	1.30
1282978	LM1117MPX-3.3/NOPB ♻♠	SOT-223/3	800mA, 3.3V LDO linear regulator	★	Call	Call
1283161	LM1117MPX-ADJ/NOPB ♻♠	SOT-223/3	800mA adj LDO linear regulator	.67	.60	.46
896935	LM2936M-5.0♠	SOIC-8	Ultra low quiescent curr. volt reg	1.89	1.36	1.30
897188	LM2937ET-3.3	TO-220	500mA, 3.3V LDO volt reg, I-temp	2.45	1.81	1.32
297810	LM2937ET-5.0⊕	TO-220	500mA, 5V LDO regulator	2.05	1.51	1.13
897268	LM2940CS-5.0♠	TO-263/3	1A, 5V LDO pos regulator	2.09	1.55	1.14
897381	LM2940CT-5.0/NOPB ♻	TO-220/3	1A, 5V LDO pos regulator	1.17	.88	.81
837273	LM2940CT-12/NOPB ♻♠	TO-220-/3	1A ,12V LDO pos regulator	1.07	.81	.74
897516	LM2940S-5.0♠	TO-263/3	1A, 5V LDO pos regulator, I-temp	1.75	1.55	1.14
837388	LM2940S-5.0/NOPB ♻♠	TO-263/3	1A, 5V LDO pos regulator, I-temp	2.09	1.55	1.14
897479	LM2940S-12♠	TO-263/3	1A, 12V LDO pos reg, I-temp	2.09	1.55	1.14
837505	LM2940T-5.0/NOPB ♻	TO-220	1A, 5V LDO volt reg, I-temp	1.79	1.34	.99
897655	LM2940T-10.0	TO-220	1A, 10V LDO volt reg, I-temp	1.31	1.18	1.07
837441	LM2940T-10.0/NOPB ♻♠	TO-220	1A 10V LDO reg, I-temp	1.03	.96	.90
897698	LM2940T-12.0♠	TO-220/3	1A, 12V LDO pos reg, I-temp	1.09	.95	.90
837476	LM2940T-12.0/NOPB ♻♠	TO-220/3	1A, 12V LDO pos reg, I-temp	1.07	.81	.74
837564	LM2941CT/NOPB ♻	TO-220/5	1A adj LDO pos regulator	1.06	.80	.73
897735	LM2941S♠	TO-263/5	1A adj LDO pos regulator, I-temp ..	2.09	1.55	1.15
837599	LM2941S/NOPB ♻♠	TO-263/5	1A adj LDO pos regulator, I-temp ..	2.09	1.55	1.15
1323397	LP2950ACZ-3.3/NOPB ♻♠	TO-92	3.3V µpwr voltage regulator, I-temp	.99	.77	.56
904616	LP2951ACM♠	M08A	Adjustable µpower volt regulator ...	1.01	.74	.54
904683	LP2951ACMX♠	M08A	Adjustable µpower volt regulator	★	Call	Call
1323645	LP2951ACMX/NOPB ♻♠	M08A	Adjustable µpower volt regulator	★	Call	Call
904886	LP2980AIM5-5.0	SOP-5	50mA, 5V µpwr ultra LDO volt reg ..	.83	.60	.44
1325940	LP2985IM5-3.3/NOPB ♻♠	MF05A	150mA, 3.3V µpwr low noise ultra reg	★	Call	Call
1326133	LP2985IM5-5.0/NOPB ♻	SOP-5	150mA, 5V µpwr low noise ultra reg	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Voltage Regulators

Color Code Legend: New Sale Lower$ QtySave

Additional Voltage Regulators are available online at www.Jameco.com/Semiconductors

National Semiconductor Low-Dropout Voltage Regulators (Cont.)

Part No.	Product No.	Pkg./Pins	Description	1	10	100
897938	LM2990S-5.0♠	TO-263/3	1A -5V negative LDO, I-temp	$2.85	$2.64	$2.48
898105	LM2991S	TO-263/5	1.0A neg. LDO adj. volt reg (-26Vin)	2.85	2.17	1.99
837695	LM2991S/NOPB🙾♠	TO-263/5	-3V to -24V neg LDO adj. reg	2.85	2.64	2.48
1272745	LM3480IM3-3.3/NOPB🙾♠	SOT-23/3	100mA, 3.3V quasi LDO linear volt reg	★	Call	Call
900148	LM3480IM3-5.0/NOPB🙾♠	SOT-23/3	100mA, 5V quasi LDO linear volt reg	★	Call	Call
901319	LM3940IMP-3.3/NOPB🙾♠	SOT-223/3	1A LDO reg for 5V to 3.3V conversion	★	Call	Call
901351	LM3940IS-3.3	TO-263/3	1A LDO reg for 5V to 3.3V conversion	1.99	1.63	1.20
840034	LM3940IT-3.3/NOPB🙾	TO-220/3	1A LDO reg for 5V to 3.3V conversion	2.05	1.51	1.12
905758	LP3982IMM-ADJ/NOPB🙾♠	MSOP-8	300mA adj µpwr ultra low noise CMOS reg	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

Linear Technology Low Drop-Out Volt. Regulators

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1729514	LT1084CP🙾♠	TO-3P	5.0A LDO positive adjustable reg.	$8.85	$8.30	$7.90
1729565	LT1084CT🙾	TO-220/3	5.0A LDO positive adjustable reg.	7.85	7.31	6.96
1729611	LT1085CM🙾♠	DDPAK-3	3.0A LDO positive adjustable reg.	7.15	6.68	6.36
1729637	LT1085CM-3.3🙾♠	DDPAK-3	3.3V 3.0A LDO positive reg.	7.15	6.68	6.36
1729670	LT1085CT-3.3🙾♠	TO-220/3	3.3V 3.0A LDO positive reg.	6.55	6.12	5.82
1729696	LT1085CT-5🙾♠	TO-220/3	5V 3.0A LDO positive reg.	6.55	6.12	5.82
1729717	LT1085IT🙾♠	TO-220/3	3.0A LDO positive adj. reg., I-temp	8.79	8.23	7.83
1729784	LT1086CM-3.3🙾	DDPAK-3	3.3V 1.5A LDO positve reg.	3.99	3.73	3.55
1729805	LT1086CT🙾♠	TO-220/3	1.5A LDO positive adj. reg.	3.75	3.52	3.35
1729821	LT1086CT-12🙾♠	TO-220/3	12V 1.5A LDO positive reg.	3.75	3.52	3.35
1729830	LT1086CT-3.3♠	TO-220/3	3.3V 1.5A LDO positve reg.	3.75	3.52	3.35
1729864	LT1086IM🙾♠	DDPAK-3	1.5A LDO positive adj. reg., I-temp	4.45	4.15	3.95
1730443	LT1117CM-3.3🙾♠	DDPAK-3	3.3V 800mA LDO positive reg.	3.89	3.63	3.46
1730494	LT1117CST🙾♠	SOT-223	800mA LDO positive adj. reg.	3.65	3.41	3.24
1730523	LT1117CST-3.3🙾♠	SOT-223	3.3V 800mA LDO positive reg.	3.65	3.41	3.24
1730540	LT1117CST-5🙾♠	SOT-223	5V 800mA LDO positive reg.	3.65	3.41	3.24
1730566	LT1117IST🙾♠	SOT-223	800mA LDO pos. adj. reg., I-temp	3.79	3.55	3.38
1730582	LT1117IST-3.3🙾♠	SOT-223	3.3V 800mA LDO pos. reg., I-temp	3.79	3.55	3.38
1730654	LT1118CST-2.5🙾♠	SOT-223	2.5V 800mA LDO source & sink reg.	4.75	4.43	4.22
1730873	LT1121CS8♠	SOIC-8	µPwr LDO reg. w/ shutdown	3.05	2.82	2.68
1730902	LT1121CS8-5🙾	SOIC-8	5V µpwr LDO source & sink reg.	3.05	2.82	2.68
1730929	LT1121CST-3.3🙾♠	SOT-223	3.3V µpwr LDO source & sink reg.	3.25	3.06	2.91
1730945	LT1121CST-5🙾♠	SOT-223	5V µpwr LDO source & sink reg.	3.25	3.06	2.91
1730970	LT1121IS8-5🙾♠	SOIC-8	5V µpwr LDO source & sink reg., I-temp	3.65	3.41	3.24
1730988	LT1121IST-3.3♠	SOT-223	3.3V µpwr LDO source & sink reg., I-temp	3.89	3.63	3.46
1731171	LT1129CQ-5	DDPAK-5	5V µpwr LDO reg. w/ shutdown	4.65	4.33	4.12
1731180	LT1129CS8♠	SOIC-8	µPwr LDO reg. w/ shutdown	4.75	4.46	4.24
1731201	LT1129CS8-3.3🙾♠	SOIC-8	3.3V µpwr LDO reg. w/ shutdown	4.75	4.46	4.24
1731227	LT1129CS8-5🙾♠	SOIC-8	5.0V µpwr LDO reg. w/ shutdown	4.75	4.46	4.24
1731260	LT1129CST-5🙾	SOT-223	5.0V µpwr LDO reg. w/ shutdown	4.25	3.98	3.79
1731366	LT1129IS8🙾♠	SOIC-8	µPwr LDO reg. w/ shutdown, I-temp	5.65	5.28	5.02
1731391	LT1129IS8-5🙾♠	SOIC-8	5.0V µpwr LDO reg. w/ shutdown, I-temp	5.65	5.28	5.02
1731403	LT1129IST-3.3	SOT-223	3.3V µpwr LDO reg. w/ shutdown, I-temp	4.75	4.46	4.24
1731420	LT1129IST-5🙾♠	SOT-223	5.0V µpwr LDO reg. w/ shutdown, I-temp	4.75	4.46	4.24
1732300	LT1175CQ	DDPAK-5	500mA neg. LDO µpwr reg.	5.85	5.49	5.22
1732318	LT1175CQ-5♠	DDPAK-5	5V 500mA negative LDO µpwr reg.	5.85	5.49	5.22
1732334	LT1175CS8🙾	SOIC-8	500mA negative LDO µpwr reg.	5.45	5.07	4.82
1732351	LT1175CS8-5🙾	SOIC-8	5V 500mA negative LDO µpwr reg.	5.45	5.07	4.82
1732369	LT1175CST-5	SOT-223	5V 500mA negative LDO µpwr reg.	4.89	4.57	4.35
1732422	LT1175IS8-5🙾♠	SOIC-8	5V 500mA neg. LDO µpwr reg., I-temp.	6.99	6.54	6.22
1732713	LT1185CQ🙾	DDPAK-5	Low drop out reg.	6.75	6.33	6.02
1732721	LT1185CT	TO-220/5	Low drop out reg.	6.55	6.09	5.80
1737750	LT1521CST-3.3🙾♠	SOT-223	3.3V 300mA LDO w/ µpwr curr. & shtdwn	3.35	3.10	2.95
1737776	LT1521CST-5🙾♠	SOT-223	5.0V 300mA LDO w/ µpwr curr. & shtdwn	3.35	3.10	2.95
1737792	LT1521IS8🙾♠	SOIC-8	300mA LDO w/ µpwr curr. & shtdwn, I-temp	5.05	4.71	4.49
1737830	LT1521IST-3.3🙾♠	SOT-223	3.3V 300mA LDO w/ µpwr curr. & shtdwn, I-temp	4.75	4.43	4.22
1737881	LT1529CQ-3.3🙾♠	DDPAK-5	3.3V 3.0A LDO w/ µpwr curr. & shtdwn	5.95	5.56	5.29
1737910	LT1529CT-5♠	TO-220/5	5.0V 3.0A LDO w/ µpwr curr. & shtdwn	5.45	5.07	4.82
1737952	LT1529IQ-5🙾♠	DDPAK-5	5.0V 3.0A LDO w/ µpwr curr. & shtdwn, I-temp	6.75	6.33	6.02
1738197	LT1580CQ🙾♠	DDPAK-5	7.0A very low dropout reg.	9.25	8.65	8.23
1738200	LT1580CR-2.5♠	DDPAK-7	2.5V 7.0A very low drop out reg.	9.55	8.93	8.50

Linear Technology Low Drop-Out Voltage Regulators (Cont.)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1738357	LT1585CM-3.3🙾♠	DDPAK-3	3.3V 4.6A LDO fast response pos. reg.	$7.75	$7.24	$6.89
1738390	LT1585CT-3.3🙾♠	TO-220/3	3.3V 4.6A LDO fast response pos. reg.	7.15	6.68	6.36
1738437	LT1587CM-1.5🙾♠	DDPAK-5	1.5V 3.0A LDO fast response GTL+ reg.	6.55	6.12	5.82
1738461	LT1587CM-3.3🙾♠	DDPAK-5	3.3V 3.0A LDO fast response positve reg.	6.55	6.09	5.80
1740131	LT1762EMS8🙾♠	MSOP-8	Adj. 150mA Low noise LDO µpwr reg.	1.95	1.83	1.74
1740174	LT1762EMS8-3.3🙾♠	MSOP-8	3.3V 150mA Low noise LDO µpwr reg.	1.95	1.83	1.74
1740182	LT1762EMS8-5🙾♠	MSOP-8	5.0V 150mA Low noise LDO µpwr reg.	1.95	1.83	1.74
1740191	LT1763CDE♠	DFN-12	Adj. 500mA low noise LDO µpwr reg., I-temp	4.19	3.93	3.74
1740246	LT1763CS8🙾♠	SOIC-8	Adj. 500mA low noise LDO µpwr reg., I-temp	3.45	3.24	3.08
1740254	LT1763CS8-1.5🙾♠	SOIC-8	1.5V 500mA low noise LDO µpwr reg., I-temp	3.45	3.24	3.08
1740271	LT1763CS8-2.5♠	SOIC-8	2.5V 500mA low noise LDO µpwr reg., I-temp	3.45	3.24	3.08
1740297	LT1763CS8-3🙾♠	SOIC-8	3.0V 500mA low noise LDO µpwr reg., I-temp	3.45	3.24	3.08
1740300	LT1763CS8-3.3♠	SOIC-8	3.3V 500mA low noise LDO µpwr reg., I-temp	3.45	3.24	3.08
1740318	LT1763CS8-5♠	SOIC-8	5.0V 500mA low noise LDO µpwr reg., I-temp	3.45	3.24	3.08
1740334	LT1764AEQ♠	DDPAK-5	Adj. 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740351	LT1764AEQ-1.5🙾♠	DDPAK-5	1.5V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740377	LT1764AEQ-1.8🙾♠	DDPAK-5	1.8V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740406	LT1764AEQ-2.5🙾♠	DDPAK-5	2.5V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740431	LT1764AEQ-3.3🙾♠	DDPAK-5	3.3V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740473	LT1764EQ🙾♠	DDPAK-5	Adj. 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1740502	LT1764EQ-1.8🙾♠	DDPAK-5	1.8V 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1740529	LT1764EQ-2.5🙾♠	DDPAK-5	2.5V 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1740553	LT1764EQ-3.3🙾♠	DDPAK-5	3.3V 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1742575	LT1962EMS8🙾♠	MSOP-8	Adj. 300mA low noise µpwr LDO	3.05	2.82	2.68
1742621	LT1962EMS8-3.3🙾♠	MSOP-8	3.3V 300mA low noise µpwr LDO	3.05	2.82	2.68
1742663	LT1963AEQ🙾♠	DDPAK-5	Adj. 1.5A low noise fast trans. resp. LDO	5.35	5.02	4.78
1742701	LT1963AEQ-1.8🙾♠	DDPAK-5	1.8V 1.5A low trans. resp. LDO reg.	5.35	5.02	4.78
1742743	LT1963AEQ-3.3♠	DDPAK-5	3.3V 1.5A low trans. resp. LDO reg.	5.35	5.02	4.78
1742760	LT1963AES8🙾♠	SOIC-8	Adj. 1.5A fast trans. resp. LDO reg.	3.95	3.66	3.48
1742831	LT1963AES8-3.3🙾♠	SOIC-8	3.3V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742858	LT1963AEST-1.5🙾♠	SOT-223	1.5V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742874	LT1963AEST-1.8🙾♠	SOT-223	1.8V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742891	LT1963AEST-2.5🙾♠	SOT-223	2.5V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742997	LT1963EQ🙾♠	DDPAK-5	Adj. 1.5A low noise fast trans. resp. LDO	5.35	5.02	4.78
1743041	LT1963EQ-2.5♠	DDPAK-5	2.5V 1.5A low noise fast trans. resp. LDO	5.35	5.02	4.78
1743068	LT1963ES8♠	SOIC-8	Adj. 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1743172	LT1963EST-1.8🙾♠	SOT-223	1.8V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1743201	LT1963EST-3.3🙾♠	SOT-223	3.3V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1743252	LT1963ET-3.3♠	TO-220/5	3.3V 1.5A low noise fast trans. resp. LDO	4.55	4.22	4.02
1743594	LT3010EMS8E🙾♠	MSOP-8	Adj. 50mA 3V to 80V LDO µpwr linear	3.35	3.14	2.99
1743615	LT3010EMS8E-5🙾♠	MSOP-8	5V 50mA 3V to 80V LDO µpwr linear	3.35	3.14	2.99
1743800	LT3021ES8-1.2🙾♠	SOIC-8	1.2V 500mA low volt, low dropout linear	4.85	4.52	4.30
1743842	LT3024EDE🙾♠	DFN-12	Dual 100mA/500mA LDO low noise µpwr	5.25	4.92	4.69

Texas Instruments Low Drop-Out Volt. Reg. NEW

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1119791	TPS75701KTTT🙾	TO-263	Fast transient response 3A reg, I-temp	$5.35	$5.00	$4.65
763972	TPS79718DCKT	SC70/5	Ultra-LP 10mA linear reg. w/ pwr good output	.78	.63	.59

Low Drop-Out Voltage Regulators

Manufacturer may vary

Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
299743	LM1084IT-ADJ⊕	TO-220	5A low dropout adj. pos. volt. reg.	$1.99	$1.52	$1.13
299735	LM1084IT-3.3	TO-220	5A low dropout 3.3V pos. volt. reg.	3.09	2.33	(1.63)
282757	LT1085CT	TO-220	3A low drop pos volt reg. adj./fixed	1.49	1.35	1.01
192305	LM1086CT-3.3⊕	TO-220/3	1.5A low dropout positive reg. (3.3V)	1.20	.89	.79
192313	LM1086CT-5.0⊕	TO-220/3	1.5A low dropout positive reg. (5V)	1.49	1.27	(.95)
251782	LM1117MPX-ADJ	SOT-223/3	800mA low dropout linear regulator	.62	.53	(.398)
242114	LM1117T-3.3⊕	TO-220/3	800mA, 3.3V, LDO voltage reg.	.66	.63	.57
314326	AP1184K5L🙾	TO-263/5	4A ultra LDO adj. reg.	5.29	3.69	3.29
192495	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin)	1.49	1.46	1.34
107182	LM2940CT-5⊕	TO-220/3	5V LDO reg. (max. 45Vin)	1.39	1.05	.77
121064	LM2941CT	TO-220/5	1A LDO adjustable reg. (45Vin)	1.55	1.15	(.85)
192524	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V	1.95	1.46	1.09

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

🙾 RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Voltage Regulators are available online at www.Jameco.com/Semiconductors

FAIRCHILD SEMICONDUCTOR Voltage Regulators

Part No.	Product No.	Pkg.	Description	1	10	100
786138	LM7805CT_NL	TO-220	5V, 1A pos. voltage reg., I-temp	$.64	$.54	$.40
973831	LM78L05ACZ_NL	TO-92	5V, 100mA pos. voltage reg., I-temp	.24	.216	.194
871658	MC78T12CT	TO-220	12V, 3A pos. voltage reg., I-temp	1.13	.93	.75

National Semiconductor Voltage Regulators

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
1265262	LM317AEMP♠	SOT-223/4	3-term. 1A output adj pos reg, I-temp	★	Call	Call
837898	LM317AT/NOPB♠	TO-220	3-term. 1.5A output adj pos reg, I-temp	1.10	.82	.76
894356	LM317EMP	SOT-223/4	3-term. 1A output adj pos reg, C-temp	.61	.58	.55
837927	LM317HVT/NOPB♠	TO-220	3-term. 1A output adj pos reg, C-temp	1.59	1.22	1.12
894401	LM317LM/NOPB♠	SOIC-8	3-terminal adjustable pos regulator	✳	.33	.30
898543	LM317LZ/NOPB	TO-92	Adjustable, 100mA positive volt reg.	.37	.279	.242
898800	LM317T/NOPB	TO-220	Adjustable, 1.5A positive volt reg.	1.01	.94	.88
898990	LM320T-5.0	TO-220	-5V, 1.5A negative voltage regulator	1.00	.82	.75
838401	LM334M/NOPB	SOIC-8	Adjustable current source	.91	.81	.71
1268498	LM334Z/NOPB♠	TO-92	3-terminal adjustable current source	.65	.60	.56
1269781	LM336Z-5.0/NOPB♠	TO-92	5V reference diode	.94	.69	.50
838591	LM337LM/NOPB♠	SOIC-8	3-term. adjustable negative regulator	✳	.413	.387
1270467	LM337LZ/NOPB♠	TO-92	3-term. adjustable negative regulator	✳	.443	.413
838621	LM338T/NOPB	TO-220	5A adjustable positive regulator	1.43	1.33	1.25
894567	LM340LAZ-5.0♠	TO-92	3-terminal 5V positive regulator	1.07	.78	.57
899837	LM340S-5.0/NOPB♠	TO-263	3-terminal 5V pos regulator, C-temp	1.03	.96	.90
900017	LM340T-5.0	TO-220	5V, 1A positive volt regulator, I-temp	1.02	.91	.83
900001	LM340T-5.0/NOPB♠	TO-220	3-terminal 5V pos regulator, C-temp	1.65	1.22	.90
838815	LM340T-12/NOPB♠	TO-220	3-terminal 12V pos regulator, C-temp	1.02	.77	.71
838831	LM340T-15/NOPB♠	TO-220	3-terminal 15V pos regulator, C-temp	1.03	.77	.71
107166	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	2.59	1.93	1.33
843446	LP2950CDT-5.0/NOPB♠	TO-252	Adjustable µpwr volt reg., I-temp	1.30	.95	.69
904712	LP2951CM/NOPB♠	SOIC-8	Adjustable µpwr volt reg., I-temp	✳	.379	.355
839762	LM385M-2.5/NOPB♠	SOIC-8	µPwr voltage reference diode	✳	.367	.344
902186	LM78L05ACM	SOIC-8	5V, 100mA positive volt regulator	.37	.321	.301
902291	LM78L05ACZ	TO-92	5V, 100mA positive volt regulator	.72	.52	.377
902285	LM78L12ACZ♠	TO-92	3-terminal 12V positive regulator	✳	.32	.302
902442	LM78L15ACZ	TO-92	15V, 100mA positive volt regulator	.66	.61	.59
902514	LM78M05CDT/NOPB♠	TO-252	3-terminal 5V positive regulator	.74	.69	.65
902071	LM7805CT	TO-220	5V, 1A positive voltage regulator	.98	.92	.86
840886	LM7808CT/NOPB	TO-220	8V, 1A positive voltage reg., I-temp	1.23	1.09	.95
902127	LM7812CT	TO-220	12V, 1A positive voltage regulator	1.05	.90	.85
902151	LM7815CT	TO-220	3-terminal 15V positive regulator	1.04	.89	.84
902637	LM7905CT♠	TO-220	3-terminal -5V negative regulator	.86	.81	.76
902661	LM7912CT♠	TO-220	3-terminal -12V negative regulator	.86	.80	.75
902696	LM7915CT♠	TO-220	3-terminal -15V negative regulator	.86	.80	.75
902725	LM79L05ACM♠	SOIC-8	3-terminal -5V negative regulator	1.03	.73	.53
902215	LM78L05ACM/NOPB♠	SOIC-8	3-terminal 5V positive regulator	✳	.293	.268
902805	LM79L05ACZ	TO-92	-5V, 100mA negative volt regulator	.39	.36	.33
1305287	LM79L05ACZ/NOPB♠	TO-92	3-terminal -5V negative regulator	✳	.327	.301
840915	LM78L12ACM/NOPB♠	SOIC-8	3-terminal 12V positive regulator	✳	.321	.301
902864	LM79L12ACZ♠	TO-92	3-terminal -12V negative regulator	✳	.365	.336
841256	LM79L15ACM/NOPB	SOIC-8	-15V, 100mA negative volt regulator	.38	.367	.344

★ Please call or visit our website for minimum order quantity and pricing

ST Voltage Regulators

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
889591	LM117K♠	TO-3/2	1.2V to 37V voltage regulator	$4.25	$3.98	$3.71
924570	L7805ACV	TO-220	5V, 1.5A pos. voltage regulator	.71	.56	.42
924609	L7805CT	TO-3	5V, 1.5A pos. voltage regulator	2.19	2.10	1.99
924633	L7805CV	TO-220	5V, 1.5A pos. voltage regulator	.59	.47	.35
889428	L78L05ACZ	TO-92	5V, 100mA pos. voltage regulator	.53	.423	.318
889305	L7812CV	TO-220	12V, 1.5A pos. voltage regulator	.59	.47	.35
889495	L7905CV	TO-220	5V, 1.5A neg. voltage regulator	.64	.51	.38
889567	L7915CV♠	TO-220A	-15V negative voltage regulator	✳	.267	.222

ON Semiconductor® Voltage Regulators

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg/Pins	Description	1	10	100
876037	MC7805ACD2TG	D2PAK	5V, 1A pos. volt reg., C-temp	$.80	$.73	$.548
876053	MC7805ACT	TO-220/3	5V, 1A pos. volt reg., I-temp	.52	.386	.354
797267	MC7805ACTG	TO-220/3	5V, 1A pos. volt reg., C-temp	.45	.375	.348
876109	MC7805BT	TO-220	5V, 1A pos. volt reg., I-temp	.47	.441	.397
876125	MC7805BTG	TO-220/3	5V, 1A pos. volt reg., I-temp	.31	.255	.236
797283	MC7805CD2TG	D2PAK	5V, 1A pos. volt reg., C-temp	.39	.342	.293
876221	MC7805CT	TO-220	5V, 1A pos. volt reg., I-temp	.43	.416	.374
876248	MC7805CTG	TO-220/3	5V, 1A pos. volt reg., C-temp	.32	.272	.256
797304	MC7806ACT	TO-220/3	6V, 1A pos. volt reg., C-temp	.54	.432	.324
876281	MC7808ACT	TO-220/3	8V, 1A pos. volt reg., C-temp	.57	.52	.392
797363	MC7808CD2T♠	D2PAK	8V, 1A pos. volt reg., C-temp	.50	.447	.406
797380	MC7808CTG	TO-220/3	8V, 1A pos. volt reg., C-temp	.35	.268	.248
876352	MC7809CT	TO-220/3	9V, 1A pos. volt reg., C-temp	.56	.466	.373
797435	MC7812ACTG	TO-220/3	12V, 1A pos. volt reg., C-temp	.31	.254	.235
876441	MC7812CTG	TO-220/3	12V, 1A pos. volt reg., C-temp	.35	.287	.267
797451	MC7815ACTG	TO-220/3	15V, 1A pos. volt reg., C-temp	.31	.255	.236
876547	MC7815CTG	TO-220/3	15V, 1A pos. volt reg., C-temp	.35	.291	.254
797507	MC78L05ACDG♠	SOIC-8	5V, 100mA pos. volt reg., C-temp	✳	.369	.333
876715	MC78L05ACP♠	TO-92/3	5V, 100mA pos. volt reg., C-temp	✳	.124	.114
876791	MC78L08ACPG	TO-92/3	8V, 100mA pos. volt reg., C-temp	.38	.317	.23
876811	MC78L09ACD♠	SOIC-8	9V, 100mA pos. volt reg., C-temp	✳	.185	.173
876942	MC78L15ACP	TO-92/3	15V, 100mA pos. volt reg., C-temp	.22	.187	.14
797566	MC78M05CTG	TO-220/3	5V, 500mA pos. volt reg., C-temp	.55	.50	.375
797697	MC78M15BTG	TO-220/3	15V, 500mA pos. volt reg., I-temp	.61	.55	.413
797777	MC7905.2CTG	TO-220/3	-5.2V, 1A neg. volt reg., C-temp	.55	.50	.46
877136	MC7905BT	TO-220/3	-5V, 1A neg. volt reg., I-temp	.43	.37	.31
877179	MC7905CTG	TO-220/3	-5V, 1A neg. volt reg., C-temp	.43	.37	.31
877216	MC7908CT	TO-220/3	-8V, 1A neg. volt reg., C-temp	.40	.336	.25
877275	MC7912CTG	TO-220/3	-12V, 1A neg. volt reg., C-temp	.56	.45	.36
797890	MC7915CTG	TO-220/3	-15V, 1A neg. volt reg., C-temp	.35	.287	.268
877451	MC79L05ACPG	TO-92/3	-5V, 100mA neg. volt reg., C-temp	.33	.272	.235
877574	MC79M12CT♠	TO-220/3	-12V, 500mA neg. volt reg., C-temp	✳	.31	.25
871105	MC33063AP1	DIP-8	1.5A, step-up/down inverting switch reg.	.95	.79	.63

Texas Instruments Voltage Regulators

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
764094	UA7805CKC	TO-220	5V, 1.5A pos. voltage reg., I-temp	$.64	$.57	$.52
764131	UA78L05ACD	SOIC-8	5V, 100mA pos. voltage reg., I-temp	.36	.30	.27
764182	UA78L05ACLP♠	TO-92	5V positive voltage regulator	✳	.30	.27
764203	UA78L05ACLPR	TO-92	5V, 100mA pos. voltage reg., I-temp	.21	.176	.167
764254	UA78L08ACLP	TO-92	8V, 100mA pos. voltage reg., I-temp	.43	.392	.314
1191566	78SR105VC♠	3-Pin	5V, 1.5A pos step-down integrated sw. reg	31.15	29.59	27.75
903630	MC79L05ACD♠	TO-220	-5V negative voltage regulator, I-temp	✳	.376	.333

Voltage Regulators

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
23499	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C)	$5.89	$5.34	$4.11
192268	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V)	1.75	1.25	.95
192276	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V)	1.99	1.77	1.31
23544	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	2.05	2.03	1.77
23552	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.45	.328	.246
23579	LM317T * *	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45	.39	.34
23667	LM323K	TO-3/2	5V 3A positive regulator	2.89	2.75	2.29
296841	LM337LZ	TO-92	3-terminal adj. neg. voltage reg.	.94	.69	.52
23819	LM337T *	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	.59	.55	.44
23835	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	5.69	4.47	3.74
192284	LM338T⊕	TO-220/3	5A adjustable regulator	2.39	1.78	1.19
23931	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	4.85	4.57	4.15
23940	LM350T	TO-220/3	3A adjustable power regulator	1.09	.89	.69
24467	LM723CN*	DIP-14	Voltage regulator (2V-37V)	.59	.483	.362
301719	LM723H	TO-5	2V - 37V, 150mA adj. voltage reg.	4.89	3.78	2.88
298071	MAX755CSA	SOIC-8	-5V/adj., neg. output, invert, curr. mode PWM reg.	2.39	2.03	1.54
51246	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	5.15	3.95	2.95

* 10 pieces included in Linear kit, pg 32 * * 20 pcs. included in Linear kit, pg 32

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204

Voltage & Switching Regulators, Power Drivers & Modules

Color Code Legend: New Sale Lower$ QtySave

Additional ICs are available online at www.Jameco.com/Semiconductors

Voltage Regulators (Continued)

Please Note: Manufacturer may vary

✳ Minimum order 10 pieces

Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
51262	7805T⊕ **	TO-220/3	5V 1A pos. voltage reg. (LM340T-5) ..	$.35	$.32	$.28
51182	78L5CZ⊕ **	TO-92	5V 100mA pos. voltage regulator	.29	.26	.25
192233	78M05	TO-220/3	5V 500mA pos. voltage regulator	.22	.19	.17
51297	7806T⊕	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.43	.39	.293
51300	7808CT⊕ *	TO-220/3	8V 1A pos. voltage reg. (LM340T-8)	.56	.42	.316
192225	78L09ACZ	TO-92	9V 100mA pos. voltage regulator.....	.20	.173	.13
51318	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12) ..	2.19	1.80	1.35
51334	7812T⊕ **	TO-220/3	12V 1A pos. voltage reg. (LM340T-12) ...	.35	.32	.24
51203	78L12CZ *	TO-92	12V 100mA pos. voltage regulator	✳	.131	.098
192241	78M12CT	TO-220/3	12V 500mA pos. voltage regulator	.21	.185	.138
51369	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15) ..	1.43	1.22	.92
51377	7815T⊕ *	TO-220/3	15V 1A pos. voltage reg. (LM340T-15) ..	.32	.272	.204
194634	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18)	.54	.42	.312
51414	7824T⊕	TO-220/3	24V 1A pos. voltage reg. (LM340T-24)	.39	.356	.267
51457	7905T *	TO-220/3	-5V 1A neg. voltage reg. (LM320T-5) ...	.42	.38	.36
51422	79L05ACP	TO-92	-5V 100mA neg. voltage regulator	.30	.264	.198
51481	7912CT *	TO-220/3	-12V 1A neg. voltage reg. (LM320T-12)	.35	.302	.229
51502	7915CT⊕ *	TO-220/3	-15V 1A neg. voltage reg. (LM320T-15)	.32	.27	.22

*10 pieces included in Linear kit, pg 32 * 20 pcs. included in Linear kit, pg 32

Power Drivers & Modules

Part No.	Product No.	Pkg	Description	1	10	100
1727877	LT1026CN8🌲♠	DIP-8	Voltage converter	$3.75	$3.52	$3.35
1745549	LTC1044ACS8🌲♠	SOIC-8	12V CMOS volt converter, C-temp	4.39	4.11	3.91
1731841	LT1161CSW♠	SOIC-20	Quad protected hi-side MOSFET driver	6.45	6.05	5.76
1747190	LTC1255CS8♠	SOIC-8	Dual 24V high-side MOSFET driver	5.65	5.28	5.02
1747405	LTC1263CS8🌲♠	SOIC-8	12V, 60mA flash memory prog. supply	6.95	5.66	5.38
1750170	LTC1477CS8♠	SOIC-8	Single protected hi-side switches	6.25	5.84	5.56
1757451	LTC3401EMS🌲♠	MSOP-10	1A 3MHz µpwr sync. boost convtr	4.65	4.36	4.15
1757478	LTC3402EMS🌲♠	MSOP-10	2A 3MHz µpwr sync. boost convtr	6.25	5.82	5.54
1744221	LT3471EDD🌲♠	DFN-10	Dual 1.3A 1.2MHz boost/inverter	4.99	4.69	4.46
1758681	LTC3780EG🌲♠	SSOP-24	Hi-eff., sync. 4-sw. buck-boost contr. ..	9.99	9.34	8.89
1758841	LTC3828EUH🌲♠	QFN-32	Dual 2-phase stp-dwn contr. w/ tracking ..	9.99	9.34	8.89

Switching Regulators

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1745581	LTC1044CN8🌲♠	DIP-8	Switched-capacitor volt converter	$3.09	$2.89	$2.75
1728360	LT1054CN8🌲	DIP-8	Switched-cap. volt converter w/ reg. ..	5.79	5.05	4.60
1728386	LT1054CS8🌲	SOIC-8	Switched-cap. volt converter w/ reg. ..	5.15	4.78	4.55
1728407	LT1054CSW🌲♠	SOIC-16	Switched-cap. volt converter w/ reg. ..	6.05	5.63	5.35
1728431	LT1054IS8🌲♠	SOIC-8	Switched-cap. volt converter w/ reg. ..	8.65	8.09	7.69
1728626	LT1070CT🌲	TO-220/5	5A high efficiency switching reg.	10.65	9.96	9.47
1728634	LT1070HVCT♠	TO-220/5	5A high efficiency switching reg.	13.79	12.89	12.27
1728714	LT1072CT🌲♠	TO-220/5	1.25A high efficiency switching reg. ..	5.65	5.28	5.02
1728781	LT1074CT7🌲♠	TO-220/7	5A step-down switching regulator ...	10.79	10.08	9.59
1728790	LT1074HVCT	TO-220/5	5A step-down switching regulator ...	13.89	13.01	12.38
1728811	LT1074HVCT7🌲♠	TO-220/7	5A step-down switching regulator ...	15.39	14.41	13.71
1728888	LT1074IT#06♠	TO-220/5	5A step-down switching regulator ...	12.55	11.71	11.15
1728925	LT1076CQ🌲♠	DDPAK-5	2A step-down switching regulator	7.55	7.03	6.69
1728968	LT1076CR♠	DDPAK-7	2A step-down switching regulator	8.15	7.62	7.25
1729039	LT1076HVCT🌲♠	TO-220/5	2A step-down switching regulator ...	11.39	10.66	10.14
1746373	LTC1144CN8🌲♠	DIP-8	Switched cap. volt conv. w/ shtdwn ...	4.55	4.22	4.02
1746381	LTC1144CS8🌲♠	SOIC-8	Switched cap. volt conv. w/ shtdwn ...	4.65	4.36	4.15
1746411	LTC1144IS8🌲♠	SOIC-8	Switched cap. volt conv. w/ shtdwn, I-temp	5.35	4.99	4.75
1731964	LT1170CQ🌲♠	DDPAK-5	5A 100KHz hi eff. switching reg.	★	Call	Call
1731999	LT1170CT🌲♠	TO-220/5	5A 100KHz hi eff. switching reg.	10.65	9.96	9.47
1732001	LT1170HVCT♠	TO-220/5	5A 100KHz hi eff. switching reg.	13.79	12.89	12.27
1732043	LT1171CQ🌲♠	DDPAK-5	2.5A 100KHz hi eff. switching reg.	9.39	8.79	8.36
1732078	LT1171CT🌲♠	TO-220/5	2.5A 100KHz hi eff. switching reg.	8.65	8.09	7.69
1732140	LT1172CN8♠	DIP-8	1.25A 100KHz hi eff. switching reg. ...	4.39	4.11	3.91
1732158	LT1172CQ♠	DDPAK-5	1.25A 100KHz hi eff. switching reg. ...	6.39	5.98	5.69
1732174	LT1172CS8🌲♠	SOIC-8	1.25A 100KHz hi eff. switching reg. ...	5.39	5.04	4.79
1732203	LT1172CT🌲	TO-220/5	1.25A 100KHz hi eff. switching reg. ...	5.65	5.28	5.02
1732254	LT1172IS8🌲♠	SOIC-8	1.25A 100KHz hi eff. switching reg., I-temp	7.05	6.57	6.25

★ Please call or visit our website for minimum order quantity and pricing

Switching Regulators (Cont.)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1732473	LT1176CSW-5♠	SOIC-20	1A step-down switching regulator ...	$8.15	$7.62	$7.25
1733871	LT1270ACT	TO-220/5	8A high eff. switching reg.	15.79	14.76	14.05
1733898	LT1270CT🌲♠	TO-220/5	10A high eff. switching reg.	10.65	9.96	9.47
1734938	LT1370CR🌲	DDPAK-7	500KHz hi eff. 6A switching reg., C-temp	11.15	10.41	9.90
1735017	LT1370IR🌲♠	DDPAK-7	500KHz hi eff. 6A switching reg., I-temp	13.39	12.51	11.91
1735033	LT1371CR🌲	DDPAK-7	500KHz hi eff. 3A switching reg., C-temp	9.65	9.00	8.56
1735076	LT1371IR🌲♠	DDPAK-7	500KHz hi eff. 3A switching reg., I-temp	11.45	10.69	10.17
1735092	LT1372CS8🌲	SOIC-8	500KHz&1MHz hi eff. 1.5A swtc. reg., C-temp	6.75	6.33	6.02
1735121	LT1372IS8	SOIC-8	500KHz&1MHz hi eff. 1.5A swtc. reg., I-temp ..	8.15	7.60	7.23
1735156	LT1373CS8🌲♠	SOIC-8	250KHz low sup. curr. hi eff. 1.5A swtc. reg.	6.75	6.33	6.02
1735228	LT1374CR-5🌲♠	DDPAK-7	4.5A 500KHz step-dwn swtc. reg.	8.25	7.74	7.36
1735367	LT1374HVCR🌲♠	DDPAK-7	4.5A 500KHz step-dwn, C-temp	9.25	8.65	8.23
1735404	LT1374HVIR🌲♠	DDPAK-7	4.5A 500KHz step-dwn, I-temp	10.55	9.84	9.37
1735439	LT1374IR🌲♠	DDPAK-7	4.5A 500KHz step-dwn I-temp	9.45	8.86	8.43
1735455	LT1374IS8♠	SOIC-8	4.5A 500KHz step-dwn, I-temp	8.65	8.09	7.69
1735551	LT1376CS8🌲♠	SOIC-8	1.5A 500KHz step-dwn, C-temp	5.75	5.35	5.09
1735623	LT1376HVIS8🌲♠	SOIC-8	1.5A 500KHz step-dwn swtc. reg., I-temp	7.59	7.10	6.76
1735682	LT1377CS8🌲♠	SOIC-8	500KHz & 1MHz hi eff. 1.5A swtc. reg.	7.89	7.38	7.03
1749401	LTC1435CS🌲♠	SOIC-16	Hi eff. low noise sync. step-dwn swtc. reg.	7.39	6.91	6.57
1737282	LT1506CR🌲♠	DDPAK-7	4.5A 500KHz step-dwn swtc. reg., C-temp ..	8.25	7.74	7.36
1737311	LT1506CS8🌲♠	SOIC-8	4.5A 500KHz step-dwn swtc. reg., C-temp	7.55	7.03	6.69
1737338	LT1506CS8-3.3🌲♠	SOIC-8	4.5A 500KHz step-dwn swtc. reg., C-temp	7.55	7.03	6.69
1737426	LT1507CS8♠	SOIC-8	500KHz monolithic buck mode swtc. reg.	6.75	6.33	6.02
1737442	LT1507CS8-3.3🌲♠	SOIC-8	500KHz monolithic buck mode swtc. reg.	6.75	6.33	6.02
1750604	LTC1530CS8🌲♠	SOIC-8	Hi pwr sync. switching reg. controller	5.05	4.71	4.49
1751826	LTC1624CS8🌲	SOIC-8	Hi eff. N-ch swtc. reg. controller, C-temp ..	6.45	6.05	5.76
1751842	LTC1624IS8🌲♠	SOIC-8	Hi eff. N-ch swtc. reg. controller, I-temp ...	8.25	7.74	7.36
1751851	LTC1625CGN♠	SSOP-16	No RSENSE™ curr. mode sync. stp-dwn, C-temp	8.75	8.16	7.76
1751877	LTC1625CS🌲♠	SOIC-16	No RSENSE™ curr. mode sync. stp-dwn, C-temp ...	8.19	7.67	7.29
1751906	LTC1625IS🌲♠	SOIC-16	No RSENSE™ curr. mode sync. stp-dwn, I-temp	10.15	9.49	9.03
1751949	LTC1628CG-PG🌲♠	SSOP-28	Hi eff. 2-phase sync. step-dwn swtc. reg.	8.19	7.67	7.29
1752036	LTC1629CG-PG🌲♠	SSOP-28	Poly-phase hi-eff. sync. stp-dwn swtc. reg.	10.99	10.29	9.79
1752343	LTC1649CS🌲♠	SOIC-16	3.3V input hi pwr step-dwn swtc. reg. contr.	6.69	6.26	5.96
1739472	LT1676CS8♠	SOIC-8	Hi-eff. step-dwn swtc. reg., C-temp ...	4.89	4.57	4.35
1739501	LT1676IS8🌲♠	SOIC-8	Hi-eff. step-dwn swtc. reg., I-temp	5.79	5.42	5.15
1753194	LTC1702ACGN🌲♠	SSOP-24	Dual 550KHz sync. 2-ph. swtc. reg. contr. ..	8.45	7.90	7.52
1753602	LTC1735CF🌲♠	TSSOP-20	Hi eff. sync. step-dwn switching reg.	5.89	5.50	5.23
1753629	LTC1735CGN🌲♠	SSOP-16	Hi eff. sync. step-dwn switching reg.	5.75	5.35	5.09
1753653	LTC1735CS🌲♠	SOIC-16	Hi eff. sync. step-dwn swtc. reg., C-temp	5.49	5.14	4.89
1753725	LTC1735IS🌲♠	SOIC-16	Hi eff. sync. step-dwn swtc. reg., I-temp ..	7.35	6.89	6.56
1740676	LT1765ES8🌲♠	SOIC-8	Mono 3A 1.25MHz step-dwn swtc. reg.	8.35	7.78	7.40
1740705	LT1766EGN🌲♠	SSOP-16	5.5-60V 1.5A 200KHz stp-dwn, I-temp	6.49	6.08	5.78
1740748	LT1767EMS8🌲♠	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	5.19	4.85	4.62
1740764	LT1767EMS8-3.3♠	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	5.19	4.85	4.62
1740781	LT1767EMS8-5🌲♠	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	5.19	4.85	4.62
1740801	LT1767EMS8E🌲♠	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp ...	6.55	6.13	5.84
1740861	LT1767EMS8E-3.3🌲♠	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp ...	6.55	6.13	5.84
1754058	LTC1775IS♠	SOIC-16	Hi pwr No RSENSE™ curr. mode sync. stp-dwn	10.29	9.63	9.17
1740941	LT1776CS8🌲♠	SOIC-8	Hi-eff. step-dwn swtc. reg., C-temp ...	4.75	4.43	4.22
1740967	LT1776IS8🌲♠	SOIC-8	Hi-eff. step-dwn swtc. reg., I-temp	5.45	5.07	4.82
1754841	LTC1877EMS8♠	MSOP-8	Hi eff. mono sync. step-down reg.	5.15	4.83	4.59
1754867	LTC1878EMS8🌲♠	MSOP-8	Hi eff. mono sync. step-down reg.	4.59	4.29	4.08
1742196	LT1940EFE🌲♠	TSSOP-16	Dual mono 1.4A 1.1MHz step-dwn	7.95	7.44	7.08
1742516	LT1959CR🌲♠	DDPAK-7	4.5A 500kHz step-down, C-temp	8.99	8.43	7.89
1742524	LT1959CS8🌲♠	SOIC-8	4.5A 500kHz step-down, C-temp	7.79	7.30	6.95
1742532	LT1959IR♠	DDPAK-7	4.5A 500kHz step-down, I-temp	9.59	8.99	8.55
1742559	LT1961EMS8E🌲♠	MSOP-8	1.5A 1.25MHz step-up, I-temp	3.05	2.83	2.69
1743341	LT1976EFE🌲♠	TSSOP-16	Hi volt 1.5A 200kHz step-dwn, I-temp ..	8.59	8.03	7.64
1743973	LT3430EFE♠	TSSOP-16	Hi volt 3A 200kHz/100kHz step-dwn ...	10.65	9.94	9.46
1743990	LT3430IFE🌲♠	TSSOP-16	Hi volt 3A 200kHz/100kHz step-dwn ...	12.25	11.43	10.88
1757646	LTC3412AEUF🌲♠	QFN-16	3A 4MHz monolithic sync. step-down ..	7.45	6.93	6.60
1757662	LTC3412EFE🌲♠	TSSOP-16	2.5A 4MHz monolithic sync. step-down	8.49	7.93	7.55
1757697	LTC3414EFE🌲♠	TSSOP-20	4A 4MHz monolithic sync. step-down ..	9.15	8.54	8.12
1757777	LTC3418EUHF🌲♠	QFN-38	8A 4MHz monolithic sync. step-down	12.29	11.52	10.96
1758340	LTC3728EG🌲♠	SSOP-28	Dual 550kHz 2-ph. sync. step-down	8.89	8.33	7.92

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

🌲 RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Hot Swap Controllers, Voltage/Current Ref. & Audio Amps

Additional ICs are available online at www.Jameco.com/Semiconductors

Hot Swap Controllers

Part No.	Product No.	Pkg	Description	1	10	100
1749232	LTC1422CS8♠	SOIC-8	Hot swap controller, C-temp	$5.25	$4.92	$4.69
1749267	LTC1422IS8♠	SOIC-8	Hot swap controller, I-temp	6.05	5.63	5.35
1739288	LT1640LIS8♠	SOIC-8	Negative voltage hot swap controller	3.85	3.59	3.42
1739350	LT1641CS8♠	SOIC-8	Positive hi volt hot swap controller	4.15	3.87	3.68
1739317	LT1641-2CS8♠	SOIC-8	Positive hi volt hot swap controller	4.15	3.87	3.68
1752132	LTC1643ALCGN♠	SSOP-16	PCI bus hot swap controller	7.55	7.03	6.69
1752191	LTC1645CS♠	SOIC-14	Dual channel hot swap contr./pwr sequencer	5.95	5.56	5.29
1752255	LTC1646CGN♠	SSOP-16	Compact PCI dual hot swap controller	6.99	6.54	6.22
1759289	LTC4211CS8♠	SOIC-8	With multifunction current control	3.45	3.24	3.08
1744546	LT4250LCS8♠	SOIC-8	Negative 48V hot swap controller	4.29	4.01	3.82
1759502	LTC4252A-2CMS♠	MSOP-10	Negative volt hot swap controller	5.19	4.85	4.62
1759684	LTC4300-1CMS8♠	MSOP-8	Hot swappable 2-wire bus buffers, C-temp	3.55	3.31	3.15
1759705	LTC4300-1IMS8♠	MSOP-8	Hot swappable 2-wire bus buffers, I-temp	4.05	3.80	3.62
1759748	LTC4300A-1CMS8♠	MSOP-8	Hot swappable 2-wire bus buffers, C-temp	3.55	3.31	3.15
1759772	LTC4300A-2CMS8♠	MSOP-8	Hot swappable 2-wire buffers, C-temp	3.55	3.31	3.15
1759801	LTC4300A-3CMS8♠	MSOP-8	Level shifting, 2-wire bus buffer w/ enable	3.55	3.31	3.15

Voltage & Current Reference

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1726840	LT1004CS8-1.2	SOIC-8	µPwr voltage reference	$2.95	$2.79	$2.65
1726882	LT1004CZ-1.2♠	TO-92/3	µPwr voltage reference	2.39	2.23	2.12
1726903	LT1004IS8-2.5	SOIC-8	µPwr voltage reference, I-temp	5.59	5.38	5.17
1727033	LT1009CZ	TO-92/3	2.5V reference	2.69	2.25	2.18
1727068	LT1009S8	SOIC-8	2.5V reference	3.15	3.00	2.87
1727455	LT1019ACN8-10♠	DIP-8	Precision reference	11.29	10.55	10.04
1727543	LT1019CS8-2.5	SOIC-8	Precision reference	8.29	7.85	7.69
1727560	LT1019CS8-4♠	SOIC-8	Precision reference	8.39	7.85	7.47
1727586	LT1019CS8-5♠	SOIC-8	Precision reference	8.39	7.85	7.47
1727607	LT1019IN8-5♠	DIP-8	Precision reference, I-temp	8.65	8.09	7.69
1727640	LT1021BCN8-5♠	DIP-8	Precision reference	9.65	9.03	8.59
1727703	LT1021CCN8-5♠	DIP-8	Precision reference	6.39	5.98	5.69
1727746	LT1021DCN8-5	DIP-8	Precision reference	4.69	4.53	4.37
1727771	LT1021DCS8-5	SOIC-8	Precision reference	5.95	5.65	5.40
1727914	LT1027BCN8-5♠	DIP-8	Precision 5V reference	9.15	8.95	8.75
1727990	LT1027ECS8-5♠	SOIC-8	Precision 5V reference	4.59	4.43	4.27
1728036	LT1029ACZ♠	TO-92/3	5V bandgap reference	4.55	4.22	4.02
1728052	LT1029CZ♠	TO-92/3	5V bandgap reference	2.75	2.58	2.45
1733329	LT1236ACS8-10♠	SOIC-8	Precision reference	5.45	5.07	4.82
1733345	LT1236ACS8-5♠	SOIC-8	Precision reference	7.69	7.36	7.09
1733370	LT1236AIS8-10♠	SOIC-8	Precision reference, I-temp	6.45	6.05	5.76
1733409	LT1236BCS8-5♠	SOIC-8	Precision reference	3.85	3.59	3.42
1736061	LT1460ACS8-2.5♠	SOIC-8	µPwr precision reference	5.95	5.56	5.29
1736221	LT1460EIS8-5♠	SOIC-8	µPwr precision reference, I-temp	4.29	4.01	3.82
1736271	LT1460GCZ-2.5♠	TO-92/3	µPwr precision reference	2.99	2.84	2.69
1736298	LT1460GIZ-10♠	TO-92/3	µPwr precision reference, I-temp	3.05	2.82	2.68
1736415	LT1461ACS8-2.5♠	SOIC-8	µPwr precision LDO volt reference	11.55	10.80	10.28
1736618	LT1461CCS8-5♠	SOIC-8	µPwr precision LDO volt ref., C-temp	2.99	2.84	2.69
1738787	LT1634ACS8-1.25♠	SOIC-8	µPwr precision shunt volt reference	7.65	7.17	6.83
1738808	LT1634ACS8-2.5♠	SOIC-8	µPwr precision shunt volt reference	7.65	7.17	6.83
1738859	LT1634AIS8-2.5♠	SOIC-8	µPwr precision shunt volt ref., I-temp	8.55	8.02	7.63

Motorola Audio Amp

Part No.	Product No.	Pkg.	Description	1	10	100
316873	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	$1.29	$.99	$.89

ON Semiconductor® Audio Amp

Part No.	Product No.	Pkg.	Description	1	10	100
24942	MC1350P	DIP-8	Video IF amp. (12V operation)	$2.49	$2.25	$2.05

Audio Amps

Part No.	Product No.	Pkg/Pins	Description	1	10	100
32897	TDA2002V	TO-220/5	8-watt audio high power amp.	$4.49	$4.02	$3.60
315344	TDA2040V	PWAT-5	20W hi-fi audio power amp.	2.35	2.00	1.50

National Semiconductor Audio Amps

Part No.	Product No.	Pkg/Pins	Description	1	10	100
24037	LM380N	DIP-14	2-watt audio power amp.	$1.31	$.98	$.73
839543	LM380N/NOPB	DIP-14	2.5-watt audio power amp.	1.55	1.15	.85
24088	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096	LM384N	DIP-14	5-watt audio amp.	1.55	1.15	.85
839586	LM384N/NOPB♠	DIP-14	5-watt audio power amp.	.91	.85	.80
839797	LM386M-1/NOPB	SOIC-8	Low voltage audio power amp.	1.09	.77	.57
839826	LM386N-1/NOPB	DIP-8	Low voltage audio power amp.	1.09	.79	.57
841395	LM833N/NOPB	DIP-8	Dual audio operational amp.	1.09	.93	.70
295718	LM1203N⊕	DIP-28	RGB video amp.	4.55	3.87	2.90
835761	LM1876T♠	TO-220/15	Dual 20W audio power amp w/ mute & standby modes	5.15	4.67	4.26
835788	LM1877M-9/NOPB	DIP-14	Dual audio power amp.	1.75	1.49	1.12
23288	LM1877N-9⊕	DIP-14	Dual power audio amplifier	1.13	1.02	.93
107140	LM1881N⊕	DIP-8	Video synchronous separator	2.85	2.19	1.66
243547	LM1894N	DIP-14	DNR noise reduction	3.05	2.80	2.10
252013	LM3875T	TO-220/11	56W high perf. audio power amp.	5.19	4.40	4.00
320670	LM3886TF	TO-220/11	68W high perf. audio amp., isol. pkg.	6.35	5.40	4.05
192516	LM3886T	TO-220/11	68W high perf. audio amp.	6.09	4.65	3.65
302201	LM4752T	TO-220	Stereo 11W audio power amp.	2.55	1.92	1.42
901634	LM4765T	TO-220/15	Dual 30W audio power amp w/ mute & standby modes	5.29	4.63	4.40

Texas Instruments Audio Amps

Part No.	Product No.	Pkg.	Description	1	5	50
828545	OPA134PA	DIP-8	High performance audio op amp.	$2.19	$1.79	$1.55
275830	OPA2134PA	DIP-8	High-performance audio op amp.	2.29	1.85	1.77

Audio Amps

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
24125	LM386N-1⊕*	DIP-8	Low voltage audio amp. 250mW/6V	$.62	$.46	$.38
24133	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59	.49

*10 pieces included in Linear kit, pg 32

Instrumentation Amps

Part No.	Product No.	Pkg	Description	1	10	100
1729952	LT1101CN8♠	DIP-8	Prec., µpwr sngl supply, C-temp	$8.75	$8.20	$7.80
1729979	LT1101IN8♠	DIP-8	Precision, µpwr sngl supply, I-temp	10.89	10.20	9.70
1745506	LTC1043CN♠	DIP-18	Dual prec. intrument. swtc. cap. building block	5.15	4.81	4.58
1745514	LTC1043CSW♠	SOIC-18	Dual prec. intrument. swtc. cap. building block	5.65	5.28	5.02
1731905	LT1167ACS8	SOIC-8	Sngl resistr gain prog. prec., C-temp	9.69	9.07	8.63
1731921	LT1167AIS8♠	SOIC-8	Sngl resistr gain prog. prec., I-temp	11.15	10.41	9.90
1755510	LTC2053IMS8♠	MSOP-8	Prec. r-to-r zero-drift resistor prog., I-temp	6.45	6.05	5.76

Texas Instruments Instrumentation Amps

Part No.	Product No.	Pkg/Pins	Description	1	5	50
900682	INA101AM♠	TO-100/10	High-accuracy instrumentaion amp	$42.99	$39.94	$37.63
900720	INA101HP♠	DIP-14	High-accuracy instrumentaion amp	20.55	19.09	17.98
900818	INA110KP♠	DIP-16	Fast-settling FET input instrumentation amp	18.19	16.91	15.93
900965	INA114AU♠	SOIC-16	Precision instrumentaion amp	10.95	10.15	9.56
901466	INA163UA♠	SOIC-14	Low-noise, low-distortion instrumentation amp	6.49	6.04	5.69
906558	PGA202KP♠	DIP-14	Digitally controlled prog gain instrumentation amp	20.15	18.72	17.64
906591	PGA203KP	DIP-14	Digitally controlled prog gain instrumentation amp	20.15	18.72	17.64
826013	INA2126UA♠	SOIC-16	Micropower instrumentaion amp (single & dual)	4.25	3.91	3.68
901546	INA2128UA♠	SOIC-16	Dual, LP instrumentation amp	12.15	11.26	10.61

National Semiconductor Comparators

NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
898181	LM311M♠	SOIC-8	Voltage comparator	✳	$.378	$.355
837812	LM311N/NOPB	DIP-8	Voltage comparator	.94	.68	.49
898885	LM319M/NOPB♠	SOIC-14	High speed dual comparator	.60	.535	.502
900535	LM361M	SOIC-14	Hi-speed differential comparator	2.99	2.21	1.63
901159	LM393M♠	SOIC-8	LP low-offset volt dual comp, C-temp	✳	.378	.34
901191	LM393M/NOPB	SOIC-8	Low-pwr, low-offset volt dual comp	.46	.408	.375
840000	LM393N/NOPB	DIP-8	Low-pwr, low-offset volt dual comp	.41	.34	.328

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Comparators & Amps

See Inside Back Cover for NEW Avago Amps

Color Code Legend: New Sale Lower$ QtySave

Additional ICs are available online at www.Jameco.com/Semiconductors

Linear Technology Comparators

Part No.	Product No.	Pkg	Description	1	10	100
1727084	LT1011ACN8	DIP-8	Voltage comparator	$5.25	$5.00	$4.83
1727105	LT1011AIS8 ♻♠	SOIC-8	Voltage comparator, I-temp	5.35	4.99	4.75
1727121	LT1011CN8 ♻♠	DIP-8	Voltage comparator	2.39	2.23	2.12
1727316	LT1016CN8 ♻♠	DIP-8	Ultrafast precision 10ns comparator	5.55	5.16	4.91
1727375	LT1017CS8 ♻♠	SOIC-8	µPwr dual comparator, C-temp	4.05	3.76	3.58
1727383	LT1017IN8♠	DIP-8	µPwr dual comparator, I-temp	4.55	4.22	4.02
1727391	LT1017IS8	SOIC-8	µPwr dual comparator, I-temp	4.89	4.57	4.48
1727412	LT1018CN8 ♻♠	DIP-8	µPwr dual comparator	3.39	3.17	3.01
1727439	LT1018CS8 ♻♠	SOIC-8	µPwr dual comparator	3.75	3.52	3.35
1730419	LT1116CS8 ♻♠	SOIC-8	12ns sngl supply ground-sensing comp.	6.65	6.22	5.92
1749558	LTC1440CS8♠	SOIC-8	Ultra LP sngle/dual comparator w/ reference	2.79	2.61	2.48
1749671	LTC1444CS ♻♠	SOIC-16	Ultra LP quad comparators w/ reference	4.55	4.22	4.02
1739691	LT1713CMS8 ♻♠	MSOP-8	Sngl 7ns LP 3V/4.5V/±5V rail-to-rail comp.	3.55	3.31	3.15
1739712	LT1714CGN ♻♠	SOIC-16	Dual 7ns LP 3V/4.5V/±5V rail-to-rail comp.	5.65	5.28	5.02
1739763	LT1715IMS ♻♠	MSOP-10	4ns, 150MHz dual comp. w/ independent I/O sup.	6.75	6.33	6.02
1739827	LT1719IS8 ♻♠	SOIC-8	4.5ns sngl/dual sup. 3/5V comp., r-to-r output	3.85	3.59	3.42
1739843	LT1720CMS8 ♻♠	MSOP-8	Dual 4.5ns sngl sup. 3/5V comp., r-to-r outputs, C-temp	5.75	5.35	5.09
1739886	LT1720IMS8 ♻♠	MSOP-8	Dual 4.5ns sngl sup. 3/5V comp., r-to-r outputs, I-temp	6.69	6.26	5.96
1739907	LT1720IS8 ♻♠	SOIC-8	Dual 4.5ns sngl sup. 3/5V comp., r-to-r outputs, I-temp	5.55	5.21	4.95

Texas Instruments Comparators NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
1922736	LM139AD♠	SOIC-14	Quad differential comparator, I-temp	$1.69	$1.60	$1.52
902522	LM311DR ♻	SOIC-8	Differential comparators w/ strobes	.23	.21	.18
1344454	LM311P ♻♠	DIP-8	Differential comp w/ strobes, C-temp	✳	.323	.291
760350	TL331IDBVR ♻	SOT-23/5	Single differential comparator, I-temp	★	Call	Call
902688	LM339AD ♻	SOIC-14	Quad differential comparators	.49	.39	.29
826742	LM339N ♻	DIP-14	Quad differential comparators	.44	.356	.267
1923173	LM393ADR♠	SOIC-8	Dual differential comparator, C-temp	✳	.161	.152
903007	LM393P	DIP-8	Dual differential comparator, C-temp	.44	.41	.267
1922912	LM2901DR♠	SOIC-14	Quad differential comparator, I-temp	✳	.168	.16
902303	LM2903DR ♻♠	SOIC-8	Dual differential comparator, I-temp	✳	.163	.148
826419	TLV3402ID ♻	SOIC-8	Nanopwr open drain output, I-temp	2.39	2.19	2.03

★ Please call or visit our website for minimum order quantity and pricing

Comparators

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
282087	LM139J	CDIP-14	Low pwr, low offset volt quad comp.	$3.25	$2.76	$2.07
23528	LM311N*	DIP-8	Voltage comparator	.35	.25	.19
143888	LM339AN ♻	DIP-14	Low power quad comparator	.29	.244	.221
23851	LM339N ♻**	DIP-8	Quad comparator	.21	.19	.165
120900	LM392N	DIP-8	Low power op amp./volt comp.	1.19	.90	.68
212177	LM393AN ♻	DIP-8	Low pwr low offset volt dual comp.	.23	.193	.144
24281	LM393N*	DIP-8	Dual comparator	.20	.17	.128

*10 pieces included in Linear kit, pg 32 **20 pieces included in Linear kit, pg 32

Texas Instruments Buffer NEW

Part No.	Product No.	Pkg.	Description	1	10	100
277544	BUF634T ♻	TO-220	250mA high speed buffer	$8.95	$8.25	$7.75

Buffer

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer	$13.75	$11.48	$8.91

Analog Devices Amplifiers

Part No.	Product No.	Pkg.	Description	1	10	100
1806031	AMP01FX♠	DIP-18	Low noise, prec. instrumentation amp	$19.65	$16.96	$16.33
1806102	AMP03GPZ ♻♠	DIP-8	Precision, utility gain differential amp	5.25	4.54	4.37
1806111	AMP04FS♠	SOIC-8	Prec. sngl sup. instrumentation amp	9.85	8.54	8.22
1808909	SMP04ESZ ♻	SOIC-16	CMOS quad sample & hold amp	9.39	9.05	8.72
1776978	AD202KN♠	DIP-38	Low cost miniature isolation amp	61.25	53.15	51.17
1777022	AD210AN♠	DIP-38	Prec. wide bandwidth 3-port isolation amp	93.79	81.38	78.34
1777031	AD210BN♠	DIP-38	Prec. wide bandwidth 3-port isolation amp	112.99	97.99	94.33
1778068	AD524AD♠	DIP-16	Precision Instrumentation amp	22.49	19.50	18.63
1780635	AD595AD♠	TO-116	Mono thermocouple w/ cold junc. comp.	24.95	21.64	20.82

Analog Devices Amplifiers (Continued)

Part No.	Product No.	Pkg.	Description	1	10	100
1780651	AD595CQ♠	DIP-14	Mono thermocouple w/ cold junc. comp.	$22.69	$19.71	$18.98
1780740	AD603AR♠	SOIC-8	Low-noise, 90MHz variable gain amp	9.75	8.51	8.20
1780791	AD604ARZ ♻♠	SOIC-24	Dual ultralow noise variable gain amp	29.29	25.42	24.47
1780838	AD606JRZ ♻♠	SOIC-16	50MHz, 80dB demodulating logarithmic amp	52.15	45.22	43.53
1780862	AD620ANZ ♻	DIP-8	Low cost, LP instrumentation amp	6.55	5.99	5.43
1780897	AD620BR♠	SOIC-8	Low cost, LP instrumentation amp	9.29	8.03	7.72
1780926	AD621AR♠	SOIC-8	Low drift, LP instrumentation amp	8.15	7.05	6.79
1780985	AD623ANZ ♻♠	DIP-8	Sngl supply r-to-r instrument amp	3.65	3.18	3.06
1781013	AD623BR♠	SOIC-8	Sngl supply r-to-r instrument amp	5.89	5.14	4.95
1781021	AD624AD♠	DIP-16	Precision Instrumentation amp	26.99	23.43	22.56
1781030	AD624BD♠	DIP-16	Precision Instrumentation amp	46.19	40.05	38.56
1781048	AD624BDZ ♻♠	DIP-16	Precision Instrumentation amp	44.05	38.18	36.75
1781072	AD625JNZ ♻♠	DIP-16	Prog. gain instrumentation amp	15.15	13.10	12.61
1781179	AD629AR♠	SOIC-8	Hi common-mode volt diff. amp	6.35	5.48	5.28
1787204	AD781JN♠	DIP-8	Complete 700ns sample & hold amp	13.49	11.71	11.27
1787554	AD783JR♠	SOIC-8	Complete very hi-spd sample & hold amp	24.55	21.28	20.49
1791650	AD823AN♠	DIP-8	Dual 16MHz r-to-r FET input amp	5.49	4.75	4.57
1791668	AD823ANZ ♻♠	DIP-8	Dual 16MHz r-to-r FET input amp	5.25	4.53	4.36
1791684	AD823ARZ ♻♠	SOIC-8	Dual 16MHz r-to-r FET input amp	5.05	4.35	4.19
1791764	AD825ARZ ♻♠	SOIC-8	Low-cost gen purp hi-spd JFET amp	3.35	2.89	2.78
1791772	AD825ARZ-16 ♻♠	SOIC-16	Low-cost gen purp hi-spd JFET amp	5.05	4.35	4.19
1792097	AD830JR♠	SOIC-8	High speed, video difference amp	5.69	4.91	4.73
1808950	SSM2018TPZ ♻♠	DIP-16	Trimless voltage controlled amp	★	Call	Call
1808968	SSM2019BNZ ♻	DIP-8	Self contained audio preamplifier	3.95	3.65	3.37
1809039	SSM2164PZ ♻♠	DIP-16	Low-cost quad volt controlled amp	5.55	4.82	4.64
1789429	AD8001ARZ ♻♠	SOIC-8	8-MHz, 50mW curr. feedback amp	6.49	5.65	5.44
1789550	AD8009ARZ ♻♠	SOIC-8	1GHz, 5,500V/µs low distortion amp	3.75	3.27	3.15
1789779	AD8021ARMZ ♻♠	MSOP-8	Low-noise, hi-spd amp for 16-bit systems	2.89	2.50	2.41
1789787	AD8021ARZ ♻♠	SOIC-8	Low-noise, hi-spd amp for 16-bit systems	2.89	2.50	2.41
1789824	AD8022ARZ ♻♠	SOIC-8	Dual hi-spd., low-noise op amp	4.85	4.18	4.03
1790032	AD8032ARM♠	MSOP-8	2.7V, 800µA, 80MHz r-to-r I/O amp	4.15	3.58	3.45
1790059	AD8032ARZ ♻♠	SOIC-8	2.7V, 800µA, 80MHz r-to-r I/O amp	3.75	3.25	3.13
1790219	AD8041ARZ ♻♠	SOIC-8	160MHz rail-to-rail amp w/ disable	3.35	2.89	2.78
1790235	AD8044ARZ-14 ♻♠	SOIC-14	Quad 150MHz rail-to-rail amp	7.59	6.58	6.34
1790323	AD8052ARMZ ♻♠	MSOP-8	Low-cost, hi-spd rail-to-rail amp	3.09	2.68	2.58
1790518	AD8057ARZ ♻♠	SOIC-8	Sngl low-cost, hi perf. volt feedbk 325MHz	1.65	1.43	1.37
1790534	AD8058ARZ ♻♠	SOIC-8	Dual low-cost, hi perf. volt feedbk 325MHz	3.09	2.68	2.58
1791641	AD8230YRZ ♻♠	SOIC-8	16V r-to-r, zero drift prec instrument amp	6.65	5.77	5.55
1792062	AD8307ARZ ♻♠	SOIC-8	Low-cost DC-500MHz, 92dB logarithmic amp	12.99	11.25	10.83
1792126	AD8310ARMZ ♻♠	MSOP-8	Fast, volt-out DC-440MHz, 95dB logarithmic	9.39	8.13	7.83
1793381	AD8531ARZ ♻♠	SOIC-8	Sngl low-cost, 250mA output sngl sup. amp	.61	.525	.505
1793436	AD8532ARZ ♻♠	SOIC-8	Dual low-cost, 250mA output sngl sup. amp	.83	.72	.70
1793461	AD8534ARZ ♻♠	SOIC-14	Quad low-cost 250mA output sngl sup. amp	1.20	1.04	1.01
1793495	AD8541ARZ ♻♠	SOIC-8	Sngl gen purp CMOS rail-to-rail amp	.61	.525	.505

★ Please call or visit our website for minimum order quantity and pricing

Linear Technology High Performance Amps

Part No.	Product No.	Pkg	Description	1	10	100
1726655	LF398S8♠	SOIC-8	Precision sample and hold amplifier	$3.55	$3.31	$3.15
1726815	LT1001CS8 ♻♠	SOIC-8	Precision op amp	3.65	3.41	3.24
1726938	LT1006S8 ♻♠	SOIC-8	Precision single supply op amp	3.49	3.28	3.12
1726954	LT1007CN8 ♻♠	DIP-8	Low noise, hi-speed precision op amp	3.65	3.41	3.24
1726997	LT1008CN8	DIP-8	pA input curr., µvolt offset, low noise op amp	5.59	5.33	5.06
1727156	LT1012CN8 ♻♠	DIP-8	pA input curr., µvolt offset, low noise op amp	4.99	4.69	4.46
1727181	LT1012S8 ♻♠	SOIC-8	pA input curr., µvolt offset, low noise op amp	6.05	5.63	5.35
1727201	LT1013ACN8 ♻♠	DIP-8	Dual precision op amp	7.15	6.68	6.36
1727228	LT1013DN8 ♻♠	DIP-8	Dual precision op amp	3.49	3.28	3.12
1727244	LT1013IS8	SOIC-8	Dual precision op amp	7.65	7.25	6.89
1727252	LT1014ACN♠	DIP-14	Quad precision op amp	12.79	11.95	11.37
1727295	LT1014DSW ♻♠	SOIC-16	Quad precision op amp	7.39	6.92	6.58
1728010	LT1028CS8 ♻	SOIC-8	Ultralow noise hi-speed op amp	8.79	8.35	7.93
1728271	LT1037CS8 ♻♠	SOIC-8	Low noise, hi-speed precision op amp	4.15	3.87	3.68
1745688	LTC1050CN8 ♻♠	DIP-8	Precision zero-drift op amp w/ internal cap	4.05	3.80	3.62
1745709	LTC1050CS8 ♻♠	SOIC-8	Precision zero-drift op amp w/ internal cap	5.05	4.71	4.49
1745725	LTC1051CSW ♻♠	SOIC-16	Dual prec. zero-drift op amp w/ int. cap	9.05	8.44	8.03
1745750	LTC1053CSW ♻♠	SOIC-18	Quad prec. zero-drift op amp w/ int. cap	16.15	15.12	14.38
1728474	LT1055CN8	DIP-8	Precision, hi-speed JFET input op amp	3.39	3.17	3.01
1728503	LT1056CN8 ♻♠	DIP-8	Precision, hi-speed JFET input op amp	3.39	3.17	3.01

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

High Performance, Rail-to-Rail & Op Amps

Additional High Performance Amps are available online at www.Jameco.com/Semiconductors

LINEAR TECHNOLOGY High Performance Amps (Continued)

Part No.	Product No.	Pkg	Description	1	10	100
1728511	LT1056S8♠	SOIC-8	Precision, hi-spd JFET input op amp	$4.05	$3.76	$3.58
1728554	LT1057CN8 ♠	DIP-8	Dual JFET input, prec. hi-speed op amp	4.55	4.22	4.02
1728597	LT1058CN ♠	DIP-14	Quad JFET input, prec. hi-speed op amp	7.65	7.15	6.80
1729194	LT1077S8 ♠	SOIC-8	µPwr, single supply, precision op amp	3.65	3.41	3.24
1729207	LT1078CN8	DIP-8	µPwr, sngl supply, dual prec. op amp ..	4.99	4.69	4.46
1729231	LT1078IS8	SOIC-8	µPwr, sngl sup., dual prec. op amp, I-temp ..	8.45	7.88	7.49
1729240	LT1078S8	SOIC-8	µPwr, sngl sup., dual prec. op amp	6.55	6.12	5.82
1729282	LT1079CN ♠	DIP-14	µPwr, sngl sup., quad prec. op amp	6.29	5.87	5.58
1729303	LT1079IN ♠	DIP-14	µPwr, sngl sup., quad prec. op amp, I-temp	7.79	7.27	6.92
1729311	LT1079SW ♠	SOIC-16	µPwr, sngl supply quad prec. op amp	8.15	7.62	7.25
1729910	LT1097CN8 ♠	DIP-8	Low power precision op amp	3.09	2.89	2.75
1730275	LT1112CN8 ♠	DIP-8	Dual low pwr prec. pA input op amp	4.39	4.11	3.91
1730312	LT1113CS8 ♠	SOIC-8	Dual low noise prec., JFET input op amp, I-temp	6.55	6.09	5.80
1730355	LT1114S♠	SOIC-16	Quad low pwr prec., JFET input op amp, I-temp..	8.89	8.33	7.92
1746550	LTC1150CN8 ♠	DIP-8	±15V zero-drift op amp w/ internal capacitor	6.95	6.47	6.16
1746576	LTC1150CS8 ♠	SOIC-8	±15V zero-drift op amp w/ internal capacitor	8.15	7.60	7.23
1746592	LTC1151CN8 ♠	DIP-8	Dual ±15V zero-drift op amp	10.75	10.06	9.57
1746613	LTC1151CSW ♠	SOIC-16	Dual ±15V zero-drift op amp	12.55	11.74	11.17
1732844	LT1206CR ♠	DDPAK-7	250mA, 60MHz curr. feedback amp	8.15	7.62	7.25
1732861	LT1206CS8 ♠	SOIC-8	250mA, 60MHz curr. feedback amp	7.25	6.79	6.46
1733257	LT1229CS8 ♠	SOIC-8	Dual 100MHz curr. feedback amp	7.79	7.27	6.92
1733804	LT1256CS ♠	SOIC-14	40MHz video fader & DC gain contrd amp	11.65	10.90	10.37
1733839	LT1260CS ♠	SOIC-16	Triple 130MHz curr. feedbk amp w/ shtdwn	4.89	4.57	4.35
1734639	LT1357CS8 ♠	SOIC-8	25MHz, 600V/µs op amp	5.15	4.81	4.58
1734671	LT1358CS8 ♠	SOIC-8	Dual 25MHz, 600V/µs op amp	8.25	7.74	7.36
1734719	LT1359CS ♠	SOIC-16	Quad 25MHz, 600V/µs op amp	12.79	11.95	11.37
1734751	LT1360CS8 ♠	SOIC-8	50MHz, 800V/µs op amp	4.65	4.33	4.12
1734794	LT1362CS♠	SOIC-16	Quad 50MHz, 800V/µs op amp	11.75	11.01	10.48
1734840	LT1364CS8 ♠	SOIC-8	Dual 70MHz, 1000V/µs op amp	7.25	6.75	6.42
1735893	LT1413S8 ♠	SOIC-8	Snge supply dual precision op amp	4.05	3.76	3.58
1736829	LT1468CS8 ♠	SOIC-8	90MHz, 22V/µs 16-bit accurate op amp ..	5.05	4.71	4.49
1736853	LT1469CS8 ♠	SOIC-8	Dual 90MHz, 22V/µs 16-bit accurate op amp ..	8.79	8.23	7.83
1736992	LT1490CS8 ♠	SOIC-8	Dual µpwr rail-to-rail I/O op amp	3.95	3.66	3.48
1737004	LT1490IS8♠	SOIC-8	Dual µpwr rail-to-rail I/O op amp	4.45	4.15	3.95
1737080	LT1492CS8 ♠	SOIC-8	Dual 5MHz, 3V/µs LP sngl sup. prec. op amp	6.09	5.70	5.42
1739149	LT1638CS8♠	SOIC-8	Dual 1.2MHz, 0.4V/µs µpwr r-to-r I/O op amp	3.95	3.66	3.48
1739202	LT1639IS ♠	SOIC-14	Quad 1.2MHz, 0.4V/µs µpwr r-to-r I/O op amp,I-temp	7.35	6.89	6.56
1741708	LT1806CS8♠	SOIC-8	325MHz, sngl r-to-r I/O low dist./noise prec. op amp	3.69	3.45	3.28
1743316	LT1970CFE♠	TSSOP-20	500mA pwr op amp w/ adj. prec. curr. limit ...	9.09	8.51	8.10
1743391	LT1990CS8 ♠	SOIC-8	±250V input range G=1, 1, 10, µpwr diff. amp	2.49	2.32	2.21
1755392	LTC2051HVCS8 ♠	SOIC-8	Dual zero-drift op amp	4.55	4.22	4.02

LINEAR TECHNOLOGY Rail-to-Rail Amps

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1746648	LTC1152CS8 ♠	SOIC-8	Rail-to-rail I/O zero-drift op amp	$6.55	$6.12	$5.82
1734874	LT1366CS8	SOIC-8	Dual precision rail-to-rail I/O op amp ...	6.75	6.33	6.02
1734903	LT1368CS8	SOIC-8	Dual precision rail-to-rail I/O op amp ...	6.75	6.33	6.02
1736870	LT1490ACMS8 ♠	MSOP-8	Dual over-the-top µpwr r-to-r I/O op amp ...	3.69	3.45	3.28
1736917	LT1490ACS8 ♠	SOIC-8	Dual over-the-top µpwr r-to-r I/O op amp ...	3.25	3.03	2.88
1737160	LT1495CS8♠	SOIC-8	1.5µA max. dual over-the-top prec. r-to-r I/O	4.95	4.64	4.42
1737240	LT1498CS8 ♠	SOIC-8	10MHz, 6V/µs dual r-to-r I/O prec. C-load ..	5.49	5.14	4.89
1737258	LT1499CS♠	SOIC-14	10MHz, 6V/µs quad r-to-r I/O prec. C-load	9.75	9.14	8.70
1738736	LT1630CS8♠	SOIC-8	30MHz, 10V/µs dual r-to-r I/O prec. op amp ..	5.45	5.07	4.82
1739042	LT1636CS8♠	SOIC-8	Over-the-top µpwr r-to-r I/O op amp ...	2.65	2.46	2.35
1739165	LT1639CS ♠	SOIC-14	1.2MHz 0.4V/µs over-the-top µpwr r-to-r I/O	6.39	5.98	5.69
1739536	LT1677CS8 ♠	SOIC-8	Low noise r-to-r precision op amp	3.95	3.66	3.48
1741644	LT1801CMS8 ♠	MSOP-8	Dual 80MHz 25V/µs LP r-to-r I/O prec. op amp ..	3.69	3.45	3.28
1741652	LT1801CS8 ♠	SOIC-8	Dual 80MHz 25V/µs LP r-to-r I/O prec. op amp ..	3.55	3.31	3.15
1741783	LT1807IMS8 ♠	MSOP-8	325MHz dual r-to-r I/O low noise/dist. prec. ..	6.69	6.26	5.96
1741935	LT1881CS8♠	SOIC-8	Dual r-to-r output pA input prec. op amp	4.95	4.64	4.42
1741986	LT1884CS8 ♠	SOIC-8	Dual r-to-r output pA input prec. op amp	4.95	4.64	4.42
1745021	LT6200IS8♠	SOIC-8	Sngl 165MHz r-to-r I/O 0.95nV low noise op amp	4.89	4.57	4.35
1745098	LT6203CS8 ♠	SOIC-8	Dual 100MHz r-to-r I/O ultralow 1.9nV LP op amp	5.15	4.78	4.55
1760511	LTC6241IS8♠	SOIC-8	Dual 18MHz low noise r-to-r output CMOS op amp	3.05	2.82	2.68

LINEAR TECHNOLOGY Op Amps

Part No.	Product No.	Pkg.	Description	1	10	100
239222	LTC1001CN8	DIP-8	Precision op amp	$2.75	$2.05	$1.89
300193	LTC1050CN8	DIP-8	Precision zero drift w/ internal cap	4.59	3.90	2.93
1731059	LT1122CS8 ♠	SOIC-8	Fast settling, JFET input op amp, I-temp	5.29	4.88	4.57

MAXIM Op Amps

Part No.	Product No.	Pkg.	Description	1	10	100
804666	ICL7611BCPA♠	DIP-8	1.4MHz low-power CMOS op amp	$3.35	$3.06	$2.79
804682	ICL7621DCSA	SOIC-8	Dual low-power op amp	2.75	2.13	1.87
811567	MAX421CWE♠	SOIC-16	±15V chopper stabilized op amp	★	Call	Call
811866	MAX4326ESA+	SOIC-8	LP rail-to-rail I/O op amp	1.89	1.54	1.36

★ Please call or visit our website for minimum order quantity and pricing

National Semiconductor Op Amps NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg/Pins	Description	1	10	100
120723	LM12CLK⊕	TO-3/4	80W op amp	$17.05	$16.10	$15.30
838209	LM321MF/NOPB ♠	SOT-23/5	Low power single op amp	.75	.541	.392
899247	LM324AM/NOPB ♠	SOIC-14	Low power quad op amp	.58	.527	.479
838233	LM324AN/NOPB ♠	DIP-14	Low power quad op amp	.64	.57	.52
838268	LM324M/NOPB ♠	SOIC-14	Low power quad op amp	.56	.50	.47
838284	LM324N/NOPB ♠	DIP-14	Low power quad op amp	.64	.57	.52
833854	LF347N/NOPB ♠	DIP-14	Wide bandwidth quad JFET input op amp	1.32	1.19	1.08
893110	LF353M♠	SOIC-8	Wide bandwidth dual JFET input op amp ..	1.19	.88	.64
839332	LM358AN/NOPB ♠	DIP-8	Low power dual op amp	.99	.74	.53
900480	LM358M/NOPB ♠♠	SOIC-8	Low power dual op amp, C-temp	1.03	.73	.53
839367	LM358N/NOPB ♠	DIP-8	Low power dual op amp	1.09	.79	.57
835500	LF411CN/NOPB ♠	DIP-8	Low-offset, low-drift JFET input op amp ..	.77	.72	.68
835526	LF412CN/NOPB ♠	DIP-8	Low-offset, low-drift dual JFET input op amp	1.65	1.22	.90
835542	LF442CN/NOPB ♠	DIP-8	Dual low power JFET input op amp	1.75	1.27	.92
893275	LF444CM/NOPB ♠♠	SOIC-14	Quad LP JFET input op amp	1.89	1.41	1.05
835569	LF444CN/NOPB ♠	DIP-14	Quad low power JFET input op amp ...	1.18	1.06	.97
840763	LM741CN/NOPB ♠	DIP-8	General purpose op amp	.82	.60	.43
835702	LM1458M/NOPB ♠	DIP-8	Dual op amp	1.05	.74	.54
836625	LM2904M/NOPB ♠♠	SOIC-8	Low power dual op amp, I-temp	✳	.39	.366
836641	LM2904N/NOPB ♠	DIP-8	Low power dual op amp	1.09	.79	.57
841897	LM608IN	DIP-8	Precison CMOS single op amp	2.69	2.06	1.88
901870	LM6172IM♠	SOIC-8	Dual hi-spd LP low-dist volt feedback, I-temp	3.75	3.49	3.27
126893	LMC6482AIN	DIP-8	CMOS dual r-r input/output, lower VOS	1.89	1.43	1.07
842128	LMC6484AIM/NOPB ♠♠	SOIC-14	CMOS quad r-r input & output op amp ..	2.25	2.07	1.94
301356	LMC6484AIN	DIP-14	CMOS quad r-r I/O op amp., lower VOS	2.99	2.09	1.82
1314677	LMC7101AIM5/NOPB ♠♠	SOT-23/5	Tiny LP op amp w/ r-r input & output	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

Texas Instruments Op Amps NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg/Pins	Description	1	10	100
828529	OP07DD ♠	SOIC-8	Precision op amp, C-temp	$.85	$.70	$.57
1925988	OP07DP1♠	DIP-8	Precision op amp, C-temp	.51	.483	.459
275805	OPA27GP	DIP-8	Ultra-low noise precision op amp	2.39	1.94	1.85
275784	OPA27GU	SOIC-8	Ultra-low noise precision op amp	2.89	2.39	2.26
759682	TL064ACN ♠	DIP-14	Low power JFET input op amp	.67	.60	.52
759762	TL072ACD ♠	SOIC-8	Low noise JFET input op amp	.73	.67	.62
759885	TL074BCD ♠♠	SOIC-14	Low-noise JFET input op amp, C-temp ..	.83	.69	.55
1063935	TL074CDE4 ♠	SOIC-14	Low noise JFET input op amp	.55	.47	.35
760034	TL082CDR ♠	SOIC-8	JFET input op amp	.63	.47	.353
821917	TL082CP1 ♠♠	DIP-8	JFET input op amp, C-temp	✳	.196	.184
760051	TL082ID ♠♠	SOIC-8	JFET input op amp, I-temp	.55	.47	.35
760085	TL084ACD ♠♠	SOIC-14	JFET input op amp, C-temp	.77	.65	.49
760149	TL084ID ♠	SOIC-14	JFET input op amp	.86	.65	.49
901651	ISO124P♠	DIP-8	Precision isolation amp	13.75	13.05	12.40
1357132	OPA177GS ♠♠	SOIC-8	Precision bi-polar op amp, I-temp	1.89	1.51	1.31
826620	LM324KADG4 ♠	SOIC-14	Quad op amp	.49	.396	.297
826671	LM324NE4 ♠	DIP-14	Quad op amp	.20	.144	.133
902792	LM348D ♠	SOIC-14	Quad op amp	.24	.212	.199

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♠ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Op Amps & Linear Series

Color Code Legend: New Sale Lower$ QtySave

Additional Op Amps are available online at www.Jameco.com/Semiconductors

Texas Instruments Op Amps (Continued) NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg/Pins	Description	1	10	100
901811	LF353DR	SOIC-8	JFET input dual op amp	$.28	$.257	$.228
902821	LM358AD	SOIC-8	Dual op amp	.24	.209	.196
901853	LF353P	DIP-8	JFET input dual op amp, C-temp	.52	.392	.294
901896	LF411CD	SOIC-8	JFET input op amp, C-temp	.55	.473	.439
905977	OPA551FAKTWT	DDPAK-7	High voltage, high current op amp	5.35	4.30	4.18
830522	UA741CP	DIP-8	Gen. purp. op amp	.39	.31	.23
1483243	LT1014CN♠	DIP-14	Quad precision op amp, C-temp	2.69	2.55	2.42
903429	MC1458D	SOIC-8	Dual gen. purp. op amp	✳	.135	.126
903509	MC1458P	DIP-8	Dual gen. purp. op amp	✳	.135	.126
904413	OPA2131UA♠	SOIC-8	Gen purp FET input dual op amp, I-temp	3.99	3.21	3.10
904448	OPA2132UA♠	SOIC-8	Hi-spd FET input dual op amp, I-temp	5.35	4.30	4.18
823525	TLC2272AIP	DIP-8	Advanced LinCMOS® rail-to-rail op amp	1.79	1.63	1.52
904691	OPA2277U♠	SOIC-8	Hi precision dual op amp, I-temp	9.29	8.41	7.89
904721	OPA2277UA♠	SOIC-8	Hi precision dual op amp, I-temp	3.49	2.80	2.71
904894	OPA2350UA♠	SOIC-8	Hi-spd sngl supply r-r dual op amp, I-temp	3.49	2.80	2.71
761598	TLV2381IDBVT	SOT-23/5	µPwr rail-to-rail input & output op amp	1.55	1.22	.99
905491	OPA4132UA♠	SOIC-14	Hi -spd FET input quad op amp, I-temp	12.09	11.06	10.27
905643	OPA4277UA♠	SOIC-14	Hi precision quad op amp, I-temp	7.25	6.64	6.31
908246	RC4558DR	SOIC-8	Dual gen. purp. op amp	.20	.18	.16
908289	RCA4558P	PDIP-8	Dual gen. purp. op amp	.45	.36	.247
903939	NE5532ADR	SOIC-8	Dual low-noise op amp, C-temp	.64	.57	.50
904026	NE5534AP	DIP-8	Low noise op amplifier	.65	.59	.541

Op Amps

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
27852	OP07CP⊕	DIP-8	Ultra-low offset voltage op amp	$.63	$.59	$.54
252988	OP07DP	DIP-8	Very low offset single bipolar op amp	.89	.74	.56
23106	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp	1.99	1.52	1.38
120715	LM10CN	DIP-8	Op amp and voltage reference	2.45	1.90	1.43
115300	OP27EP	DIP-8	Low noise precision op amp	4.39	3.57	2.67
115318	OP27GP	DIP-8	Low noise prec op amp (-40° to 80°C)	2.09	1.69	1.27
33187	TL071CP	DIP-8	Low noise JFET op amp.	.39	.302	.23
33195	TL072CP*	DIP-8	Low noise JFET dual op amp.	.48	.454	.435
33216	TL074CN*	DIP-14	Low noise JFET quad op amp.	.58	.516	.41
213057	TL081ACP	DIP-8	JFET input op amp, low offset w/ control	.51	.43	.32
33232	TL081CP	DIP-8	JFET input op amp., offset control	.27	.252	.223
214076	TL082ACP	DIP-8	JFET input op amp., low offset	.66	.504	.277
33241	TL082CP*	DIP-8	JFET input dual op amp.	.53	.40	.30
214084	TL084ACN	DIP-14	JFET input op amp.	.73	.55	.307
33267	TL084CN⊕*	DIP-14	JFET input quad op amp.	.49	.42	.315
245673	LM308AH	TO-5/8	Precision op amplifier	3.95	3.36	2.52
23464	LM308N*	DIP-8	Precision op amplifier	6.59	5.95	5.35
23608	LM318N	DIP-8	Precision high speed op amplifier	.79	.72	.65
212169	LM324AN	DIP-14	Low power quad op amp, impr. offset	.35	.30	.25
23683	LM324N**	DIP-14	Low power quad op amplifier	.28	.24	.21
22904	LF347N	DIP-14	Quad JFET input op amp (wide band)	.46	.374	.284
23915	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.37	.302	.226
22912	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
22939	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.48	.437	.402
22971	LF356N*	DIP-8	JFET input op amplifier (wide band)	.95	.81	.59
120862	LM358AN	DIP-8	Low power dual (improved 358N)	.34	.29	.25
23966	LM358N*	DIP-8	Low power dual op amplifier	.24	.21	.18
23018	LF411CN*	DIP-8	Low offset drift JFET input op amp	1.35	1.00	.75
23026	LF412CN*	DIP-8	Low offset drift JFET input dual	1.39	1.03	.76
106681	LF442CN⊕	DIP-8	Dual low power JFET input op amp	1.35	1.00	.75
119992	LF444CN⊕	DIP-14	Quad low pwr JFET input op amp	.99	.91	.82
120926	LM675T	TO-220/5	Power op amplifier	4.79	3.78	3.22
24521	LM741CH	TO-5/8	Op amplifier	4.15	3.18	2.39
24539	LM741CN**	DIP-8	Op amplifier	.29	.25	.19
24563	LM747CN	DIP-14	Dual 741 op amplifier	.80	.67	.54
239169	LT1013CP	DIP-8	Dual precision op amplifier	1.16	.94	.71

*10 pcs./**20 pcs. in Linear cabinet kit, pg 32

Op Amps (Continued)

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
239177	LT1014DN	DIP-14	Quad precision op amplifier	$3.29	$2.99	$2.89
23131	LM1458N*	DIP-8	Dual op amplifier	.36	.33	.25
12116	CA3080E	DIP-8	Op transconductance amp. (100135)	3.95	3.55	3.19
12183	CA3130E	DIP-8	CMOS op amplifier	.88	.85	.78
12204	CA3140E⊕	DIP-8	Bi-MOS op amplifier	.51	.47	.42
24168	LM3900N	DIP-14	Quad amplifier	.77	.65	.53
29356	RC4136N	DIP-14	Quad op amp. (XR4136)	.82	.76	.57
251125	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp	.44	.334	.277
252970	NE5532AP	DIP-8	Dual lower noise op amplifier	.82	.69	.518
27385	NE5532N*	DIP-8	Dual low noise op amplifier	.66	.50	.39
27406	NE5534⊕	DIP-8	Low noise op amplifier	.78	.66	.54
192532	LM13700N⊕	DIP-16	Dual op transcon. w/ diodes/buffer	1.20	.88	.64
251061	MC34072P	DIP-8	Single supply 3V-44V op amp.	1.11	.88	.79

*10 pcs. in Linear cabinet kit, pg 32

Analog Devices Linear Series

Part No.	Product No.	Pkg/Pins	Description	1	10	100
287785	AD581KH	TO-5/3	10V volt ref hi prec. 10mV tolerance	$9.75	$8.29	$6.22
115174	AD620AN	DIP-14	Low-cost instrument amplifier	12.65	11.60	8.70
115182	AD633JN	DIP-8	Low-cost analog multiplier	7.75	6.97	6.28

intersil Linear Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1922197	HI1-0508-2♠	DIP-16	Sngl 8-ch CMOS analog MUX, I-temp	$12.25	$11.60	$11.02
1116241	DG408DYZ♠	SOIC-16	Single 8-ch CMOS analog MUX, I-temp	1.69	1.29	1.21
918410	SA604AD/01	SOIC-16	Hi-perf LP FM IF system, I-temp	4.65	4.27	3.93
918436	SA612AD/01	SOIC-8	Dbl balanced mixer & oscillator, I-temp	1.59	1.46	1.35
1420808	CDP68HC68T1E♠	PDIP-16	CMOS serial real time clk w/ RAM&pwr sense, I-temp	7.15	6.30	6.26
875763	IS82C54♠	PLCC-28	CMOS prog. interval timer, I-temp	15.05	14.03	13.15
1115299	CP82C59A-12	PDIP-28	12.5MHz CMOS priority interrupt contr., C-temp	9.85	9.76	9.15

MAXIM Linear Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
809441	MAX295CSA+	SOIC-8	8th order, low pass, sw. cap filter	$7.09	$5.84	$5.36
810177	MAX359CWE+	SOIC-16	Fault protected analog multiplexer	9.99	8.10	7.05
881127	DG508ACJ♠	DIP-16	Monolithic CMOS analog MUX, C-temp	5.45	5.21	4.96
821360	MAX713CPE	DIP-16	NiCd/NiMH batt. fast-charge contr., C-temp	7.05	5.78	5.26
815779	MAX5437EUD	TSSOP-14	±15kV, 128-tap, low-drift digital pot., I-temp	8.95	7.35	6.69

National Semiconductor Linear Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
839421	LM35DM/NOPB♠	SOIC-8	Precision centigrade temp sensor	$1.08	$1.01	$.95
840827	LM75CIM-3/NOPB♠	SOP-8	Dig temp sensor & thermal watchdog w/ interf.	1.69	1.56	1.46
838372	LM331N/NOPB	DIP-8	Precision volt-to-freq. conv.r, C-temp	2.79	2.13	1.62
833969	LF398N/NOPB♠	DIP-8	Monolithic sample & hold circuits	1.01	.94	.88
903197	LMC555CM/NOPB	SOIC-8	CMOS timer, C-temp	1.25	.97	.67
840579	LM555CM/NOPB	SOIC-8	Timer	1.09	.81	.59
840608	LM555CN/NOPB	DIP-8	Timer	1.19	.89	.65
901917	LM556CN	DIP-14	Dual Timer	.96	.71	.64
893996	LM1881M/NOPB♠	SOIC-8	Video syn separator	2.89	2.69	2.52
889698	DS2003CM♠	SOIC-16	Hi curr./volt. darlington drvr, C-temp	1.03	.93	.68
889743	DS2003CN♠	DIP-16	Hi curr./volt. darlington drvr, C-temp	.63	.60	.56
889786	DS2003TM♠	SOIC-16	Hi curr./volt. darlington drvr, I-temp	.60	.57	.538
843180	LMX2306TM/NOPB♠	TSSOP-16	550MHz PLLatinum® LP freq synthesizer for RF	2.45	1.86	1.66
896521	LM2907M-8	SOIC-8	Frequency to voltage converter	1.48	1.38	1.29
905117	LP2995M/NOPB♠	SOIC-8	DDR termination regulator	1.59	1.21	.92
843868	LP2996MR/NOPB♠	PSOP-8	DDR termination regulator	1.45	1.35	1.27
898148	LM3046M	SOIC-14	Transistor array	.55	.459	.431
900252	LM3524DM	SOIC-16	Regulating pulse width modulator	.94	.86	.80
842347	LMC7660IM/NOPB♠	SOIC-8	Switched capacitor volt convtr, I-temp	.58	.55	.517
842371	LMC7660IN/NOPB	DIP-8	Switched capacitor volt convtr, I-temp	2.29	1.79	1.03

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204*

Additional Linear Series are available online at www.Jameco.com/Semiconductors

NXP / PHILIPS Linear Series

Part No.	Product No.	Pkg.	Description	1	10	100
918399	SA602AD/01	SOIC-8	Dble balanced mixer & oscillator, I-temp	$1.95	$1.79	$1.65
917193	ICM75555CD/01	SOIC-8	General purpose CMOS timer, C-temp	.53	.47	.372

ON Semiconductor® Linear Series

Part No.	Product No.	Pkg.	Description	1	10	100
25021	MC14411P	DIP-24	Bit rate frequency generator	$4.95	$4.79	$4.62
25064	MC14490P	DIP-16	Hex contact bounce eliminator	6.25	5.63	5.03
118586	MC145151P	DIP-28	Parallel input PLL freq synthesizer	6.15	5.20	4.10

Texas Instruments Linear Series NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
761838	TMP100NA/250-CT♠	SOT-23/6	Digital temp sensor w/ I²C interface	★	Call	Call
1927174	TMP100NA/250♠	SOT-23/6	Digital temp sensor w/ I²C interface, I-temp	★	Call	Call
1341966	L293DNE	DIP-16	Quad half-H drivers, I-temp	2.69	2.17	1.69
760376	TL431ACD♠	SOIC-8	Adj. prec shunt regulator, C-temp	✳	.148	.138
760413	TL431ACLP-CT	TO-92	Adj. prec shunt regulator, C-temp	✳	.169	.159
760430	TL431AID♠	SOIC-8	Adj. prec shunt regulator, I-temp	✳	.396	.297
760472	TL431AIDR♠	SOIC-8	Adj. prec shunt regulator, I-temp	✳	.097	.087
760587	TL431IDR♠	SOIC-8	Adj. prec shunt regulator, I-temp	✳	.122	.115
760499	TL431CD♠	SOIC-8	Adj. prec shunt regulator, C-temp	✳	.317	.238
760528	TL431CDR♠	SOIC-8	Adj. prec shunt regulator, C-temp	✳	.113	.102
904051	NE555D	SOIC-8	Precision timer	.31	.284	.235
828414	NE555DG4	SOIC-8	Precision timer	.20	.142	.133
904085	NE555P	DIP-8	Precision timer	.51	.441	.353
909290	SA555P	DIP-8	Precision timer, I-temp	.35	.30	.27
761264	TLC555CD	SOIC-8	LinCMOS™ timer, C-temp	.46	.34	.30
761272	TLC555CP	DIP-8	LinCMOS™ timer, C-temp	.46	.63	.45
761301	TLC555IP	DIP-8	LinCMOS® timer	.94	.71	.53
761387	TCL56IN	PDIP-14	Dual linCMOS™ timer	1.06	.95	.89
904114	NE556N	DIP-14	Dual precision timer	.53	.47	.353
760683	TL594CN	DIP-16	Pulse width modulation control circuit	.82	.62	.46
1351849	LT1054CP1♠	DIP-8	Switched capacitor volt conv. w/ reg., C-temp	1.95	1.57	1.18
827534	LT1054IP	DIP-8	Switched capacitor volt conv. w/ reg., I-temp	2.89	2.32	2.24
1147021	ULN2002AN1	DIP-16	Hi-volt./curr. darlington trans. array, C-temp	.42	.35	.32
700605	ULN2003ADR♠	SOIC-16	Hi-volt./curr. darlington trans. array, C-temp	★	Call	Call
1147178	ULN2003AN1	DIP-16	Hi-volt./curr. darlington trans. array, C-temp	.63	.47	.35
1108267	TPS2042AD♠	SOIC-8	Dual 80mfl curr limited pwr distrib. sw.	1.99	1.68	1.47
1927351	ULN2803ADWR1♠	SOIC-18	Darlington transistor array, I-temp	★	Call	Call
909409	SG3524N	DIP-16	Regulating pulse width modulator	.82	.69	.55
831761	UC3845AD	SOIC-14	Current mode PWM controller	2.05	1.85	1.72
764561	UC3906DW♠	SOIC-16	Sealed lead acid battery charger contr.	5.45	5.09	4.74
1113074	TPS5430DDA♠	SOPOWERPAD-3	3A wide input range, step-dwn SWIFT™ conv., I-temp	4.09	3.30	3.19
761942	TPIC6595DW	SOIC-20	Power logic 8-bit shift register	2.75	2.51	2.33
762849	TPS54310PWP♠	HTSSOP-20	3-6V input, 3A output synch buck PWM switcher	5.25	4.19	4.05
1113154	TPS54313PWP♠	HTSSOP-20	3-6V input, 3A output synch buck PWM switcher	5.25	4.19	4.05
762881	TPS54314PWP♠	HTSSOP-20	3-6V input, 3A output synch buck PWM switcher	5.25	4.19	4.05
762929	TPS54316PWP♠	HTSSOP-20	3-6V, 3A output synch buck PWM sw., I-temp	6.25	5.71	5.31
763008	TPS54372PWP♠	HTSSOP-20	3A output track/term. synch PWM sw., I-temp	5.25	4.19	4.05
1113461	TPS54610PWP1♠	HTSSOP-28	3-6V, 6A output synch buck PWM sw., I-temp	6.65	6.21	5.77
763104	TPS60400DBVT♠	SOT-23/5	Unreg. 60mA charge pump volt converter	★	Call	Call
1053745	SN75161BDW♠	SOIC-20	Octal gen purp interface bus transceiver	1.65	1.26	1.18
758524	SN75240PW♠	TSSOP-8	USB port transient suppressor, C-temp	.77	.61	.56
1054609	SN75240PWR♠	TSSOP-8	USB port transient suppressor, C-temp	★	Call	Call
1054684	SN754410NE	DIP-16	Quad half-H drivers	1.55	1.16	1.07
758567	SN75451BD♠	SOIC-8	Dual peripheral drivers, C-temp	.69	.59	.44
1054748	SN75451BP1♠	DIP-8	Dual peripheral drivers, C-temp	.79	.59	.44
758647	SN75468D	SOIC-16	Darlington transistor array	.59	.53	.48
758663	SN75468N	DIP-16	Darlington transistor array	.74	.62	.49

★ Please call or visit our website for minimum order quantity and pricing

VISHAY Linear Series NEW

Part No.	Product No.	Pkg.	Description	1	10	100
813984	DG419DY-E3♠	SOIC-8	Precision CMOS analog switches	$1.25	$1.14	$1.03

ST Linear Series NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
890091	NE555N	DIP-8	Gen. purp. Single bipolar timer	$.20	$.16	$.149
1421077	ULN2068B♠	DIP-16	50V, 1.5A quad darlington switches	2.15	2.00	1.93
890787	ULN2804A	DIP-18	8 darlington array w/ common emitters	.54	.53	.49
1392878	M4T28-BR12SH1♠	Snaphat	BR1255 3V, 48mAh Timekeeper® batt&crystal, C-temp	4.15	3.93	3.71
1392915	M4T32-BR12SH6♠	Snaphat	BR1632 3V, 120mAh Timekeeper® batt&crystal, I-temp	7.05	6.79	6.29
890331	SG3525AN♠	DIP-16	Regulating pulse width modulator	.69	.63	.58
1922120	HCF4538BEY♠	DIP-16	Dual monostable multivibrator	✳	.251	.239
698453	M48T18-150PC1	DIP-28	5V, 150ns, 64k timekeeper SRAM, I-temp	18.19	16.77	15.36

Linear Series

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
25751	MF10CN	DIP-20	General purpose dual active filter	$3.35	$3.03	$2.76
16301	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)(TC426CPA)	5.19	4.67	4.19
239281	DG201BDJ	DIP-16	Quad analog switch	1.59	1.50	1.18
239329	DG211CJ	DIP-16	SPST quad channel analog switch	3.45	2.91	2.19
23721	LM331N	DIP-8	Prec volt to freq convrtr (150ppm/°C)	2.19	1.69	1.30
23739	LM334Z	TO-92	Adjust current source	.84	.77	.57
297676	LM336BZ-5.0⊕	TO-92	5V voltage reference diode	1.55	1.16	.87
23771	LM336Z-2.5	TO-92	Voltage reference (2.5V)	.36	.264	.204
120889	LM385BZ2.5	TO-92	Voltage reference diode (2.5V ±1.5%)	.39	.37	.349
24117	LM385Z1.2	TO-92	Micropower volt ref diode (1.2V)	.42	.372	.28
23000	LF398N⊕	DIP-8	Sample and hold circuit	1.79	1.33	.99
309833	DG403DJ	DIP-16	Dual SPDT (NO) & SPDT (NC) analog switch	2.95	2.50	1.88
256541	DG406DJ	DIP-28	1 of 16 multiplexer/demultiplexer	4.65	3.94	2.96
272161	DG407DJ	DIP-28	Dual 8-ch multiplexer/demultiplexer	5.69	5.11	4.61
256532	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	1.75	1.49	1.29
279540	DG419DJ	DIP-8	Dual SPST (NO), dual SPST (NC) analog switch	1.85	1.60	1.51
33347	TL431CLP	TO-92	Program precision reference	.40	.314	.236
33355	TL494CN	DIP-16	Control circuit pulse-width-modulated	.43	.328	.245
27422	LM555CN**	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20
246676	LMC555CM	SOIC-8	CMOS 555 timer	1.25	.93	.70
126797	LMC555CN*	DIP-8	CMOS 555 timer	.66	.61	.55
24328	LM556N*	DIP-14	Dual 555 timer	.82	.60	.45
27457	NE558N	DIP-16	Quad timer (NE558C)	.99	.89	.79
27473	NE564N	DIP-16	High frequency phase locked loop	2.75	2.49	2.25
24352	LM565N	DIP-14	Phased locked loop	1.69	1.28	1.15
24395	LM567CN⊕	DIP-8	Tone decoder	.45	.43	.31
246650	LMC567CN	DIP-8	Tone decoder	.97	.89	.69
27490	NE571N	DIP-16	Compander, subscriber	4.25	3.85	3.49
239257	LT1004CZ-1.2	TO-92	1.2V, micropower voltage reference	.68	.57	.46
118578	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211	LM1496N⊕	DIP-14	Balanced mod/demodulator (MC1496P)	.65	.56	.506
34278	ULN2003AN⊕*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28
193826	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.39	.30	.23
34972	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
280073	TLE2426CLP	TO-92	Rail splitter precision virtual ground	1.25	.99	.92
34315	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array	.76	.65	.54
123625	LM2907N-8⊕	DIP-8	Frequency to voltage converter	1.85	1.37	1.01
23317	LM2907N⊕	DIP-14	Frequency to voltage converter	1.31	1.16	1.01
23350	LM2917N-8⊕	DIP-8	Freq. to voltage conv. w/ zener	1.85	1.57	1.18
23341	LM2917N-14	DIP-14	Freq. to voltage conv. w/ zener	1.99	1.53	1.21
12079	CA3046N	DIP-14	NPN transistor array (ULN2046)	.70	.58	.51
12159	CA3086N	DIP-14	Transistor array NPN (ULN2086)	1.59	1.45	1.30
12247	CA3162E♠	DIP-16	Dual slope & rate analog/digital conv.	10.95	9.85	8.85
31974	SG3524N	DIP-16	Regulating pulse width modulator	.70	.60	.45
25275	MC4044P	DIP-14	Frequency phase detector	9.99	7.49	5.25
51140	7555IPA	DIP-8	CMOS timer (LM555CN)	.38	.358	.323
51174	7660CPA	DIP-8	CMOS volt convrtr (+5 to ±5V) (M660AN)	.75	.68	.59
316646	ICL7662CPA	DIP-8	Volt converter, 20Vin, 4.5-20V out	2.95	2.75	2.49
875712	ICM7555IPA	PDIP-8	Gen. purp timer, I-temp.	.44	.37	.34
875747	ICM7556IPD	DIP-14	Dual general purpose timer, I-temp	.89	.81	.76

♠ Pull = Extra Savings *10 pcs. in Linear kit, pg. 32 **20 pcs. in Linear kit, pg. 32

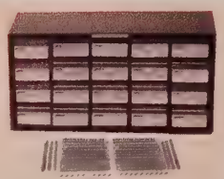
♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend
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Additional ICs are available online at www.Jameco.com/Semiconductors

Linear and Interface IC Kit SAVE $68


84988

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT

20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05CZ, 7812T

Part No.	Description	Wt. (lbs.)	1	10
84988	480 pcs. (40 types) analog IC kit	6.0	$212.95	$192.64
130411	Refill for 84988 (480 pcs.)	1.3	203.95	177.97

AVAGO TECHNOLOGIES Panel Mount Optical Encoder

The HRPG series is a family of miniature panel mount optical encoders, also known as Rotary Pulse Generators (RPG) and digital potentiometers is designed to be mounted on a front panel and used as a rotary, data-entry device.



Part No.	Product No.	Description	1	10	100
1584992	HRPG-AS3211R	Pins rear with bracket	$18.45	$15.34	$14.20

Digital Potentiometer

Part No.	Cross Ref.	Pkg.	Description	1	10	100
241744	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI digital pot	$1.69	$1.55	$1.41

Allegro Hall Effect Sensors

Part No.	Product No.	Pkg.	Description	1	10	100
1718938	A3240EUA♠	SIP-3	Chopper-stabilized precision switch	$.93	$.88	$.82
1718743	A1302EUA-T♠	SIP-3	Continuous-time ratiometric linear sensor	.96	.90	.84

Pressure Sensor

Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls
- To convert kPa to PSI: 1kPa = 0.1450377PSI
- Differential type



Part No.	Cross Ref.	Case Type	Pressure (kPa)	Output	Op. Volt. (VDC@mA)	1	10	100
320987	MPX2010DP	344C	0 - 10	25mV	10 @ 6	$20.65	$15.48	$14.24

ANALOG DEVICES Temperature Sensor

Part No.	Product No.	Pkg.	Description	1	10	100
278387	TMP36GT9	TO-92	Low voltage temp sensor	$1.19	$.99	$.79

National Semiconductor Temperature Sensors

Part No.	Product No.	Pkg.	Description	1	10	100
107094	LM34CZ⊕	TO-92	Prec temp sensor (-40° to +230°F)	$5.49	$4.34	$4.22
193480	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F)	1.85	1.39	1.10
155192	LM34DZ⊕	TO-92	Prec temp sensor (+32° to +212°F)	1.99	1.67	1.25
192217	LM35DT⊕	TO-220/3	Prec temp sensor (-55° to 150°C)	2.35	2.00	1.50
107107	LM35CZ	TO-92	Prec temp sensor (-40° to 110°C)	5.19	4.01	2.99
155740	LM35DZ⊕	TO-92	Prec temp sensor (0° to +100°C)	1.69	1.35	1.25

Texas Instruments Temperature Sensor

Part No.	Product No.	Pkg.	Description	1	10	100
826662	TMP75AID♠	SOIC-8	Digital sensor w/ 2-wire interface	$1.85	$1.69	$1.59

Temperature Sensors

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
120820	LM335AZ	TO-92	Precision temperature sensor	$.98	$.90	$.86
23755	LM335Z⊕	TO-92	Volt mode temperature sensor	.67	.61	.44
241939	AD590JH	TO-52/3	Two terminal IC temp transducer	6.85	6.49	6.19
313306	AD594AQ	DIP-14	Thermocouple amp for iron-constantan	14.29	12.86	11.58
313293	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel	14.89	13.08	11.57

ON Semiconductor® Transistors NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	1	10	100
800585	MPSA05G♠	TO-92	PNP	60	100 @ 10mA	✳	$.039	$.035
800711	MPSA13G	TO-92	NPN	30	5000 @ 10mA	✳	.069	.039
878551	MPSA13RLRA	TO-92	NPN	30	5000 @ 10mA	✳	.088	.084
800876	MPSA20	TO-92	NPN	40	40 @ 5mA	.31	.257	.198
800892	MPSA27RLRAG	TO-92	NPN	60	10000 @ 10mA	✳	.131	.118
878622	MPSA42G♠	TO-92	NPN	300	40 @ 10mA	✳	.088	.078
800930	MPSA42RLRAG	TO-92	NPN	300	25 @ 1mA	✳	.095	.085
1925291	MPSA56RLRAG♠	TO-92	PNP	80	100 @ 10mA	✳	.041	.039
878761	MPSA77	TO-92	PNP	60	10000 @ 10mA	✳	.078	.059
801211	MPSA77RLRA	TO-92	PNP	60	10000 @ 10mA	.26	.243	.219
880909	TIP127G	TO-220AB	PNP	100	1000 @ 3A	.56	.51	.45
807023	DTC114EET1	SOT-416	NPN	50	60 @ 100mA	✳	.125	.112
878497	MPS8099	TO-92	NPN	80	100 @ 1mA	✳	.087	.077
798850	MJE10532G	TO-220AB	NPN	250	50 @ 1A	.86	.77	.68
878139	MJE15033	TO-92	PNP	250	70 @ 0.5A	.85	.77	.68
800016	MPS2222ARL	TO-92	NPN	40	35 @ 0.1mA	✳	.176	.115
803268	PN2222AG	TO-92	NPN	40	50 @ 1mA	✳	.033	.03
803049	P2N2222AG	TO-92	NPN	40	35 @ 10mA	✳	.134	.118
878358	MPS2907ARL	TO-92	PNP	60	75 @ 0.1mA	✳	.059	.053
880685	PN2907ARLRA	TO-92	PNP	60	75 @ 0.1mA	✳	.159	.116
803284	PZT2907AT1G	SOT-223	PNP	60	75 @ 0.1mA	.36	.336	.321
885161	2N3904G	TO-92	NPN	40	40 @ 0.1mA	✳	.049	.039
885187	2N3904RLRA♠	TO-92	NPN	40	100 @ 10mA	✳	.045	.043
885208	2N3904RLRAG	TO-92	NPN	40	100 @ 1mA	✳	.045	.041
805597	2N3906G	TO-92	PNP	40	100 @ 10A	✳	.055	.049
885275	2N3906RLRA♠	TO-92	PNP	40	100 @ 10mA	✳	.029	.027
805634	2N3906RLRM	TO-92	PNP	40	60 @ 0.1mA	✳	.045	.034
885312	2N4401G♠	TO-92	NPN	40	80 @ 10mA	✳	.055	.049
805685	2N4401RLRAG	TO-92	NPN	40	20 @ 0.1mA	✳	.158	.103
805749	2N4403G♠	TO-92	PNP	40	100 @ 10mA	✳	.029	.026
805896	2N5088G	TO-92	NPN	30	350 @ 1mA	.33	.195	.127
806012	2N5551G♠	TO-92	NPN	160	80 @ 10mA	✳	.039	.036
885478	2N6040♠	TO-220AB	PNP	60	1000 @ 4A	★	Call	Call
885540	2N6109♠	TO-220AB	PNP	50	30 @ 2.5A	.80	.75	.70
806160	2N6387G♠	TO-220AB	NPN	60	1000 @ 5A	.78	.64	.58
885611	2N6491♠	TO-220AB	PNP	80	20 @ 5A	.78	.74	.65
885697	2N6520RLRA	TO-92	NPN/PNP	350	20 @ 1mA	.35	.324	.287
800542	MPS8599RLRA	TO-92	PNP	80	100 @ 1mA	.27	.245	.171

★ Please call or visit our website for minimum order quantity and pricing

ON Semiconductor® Prog. Unijunction Transistors

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{GKF}	Power Dissipation	1	5	50
806063	2N6027G	TO-92	40	300mW	$.24	$.229	$.19
885419	2N6027RLRA	TO-92	40	300mW	✳	.16	.14

Infineon NPN Bipolar Transistor

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	1	10	100	1000
1631306	MMBT3904LT1XT♠	SOT-23	NPN	40	30 @ 0.1A	✳	$.017	$.016	$.015

NXP / PHILIPS NPN/PNP Bipolar Transistors

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	1	10	100	1000
849881	BCX56-10T/R	SOT-223	NPN	80	63 @ 150mA	$.25	$.24	$.17	$.14
916158	BC847BT/R	SOT-23	NPN	45	200 @ 2mA	✳	.049	.039	.02
849151	BC847CWT/R	SOT-23	NPN	45	420 @ 2mA	✳	.11	.08	.06
848917	BC557B♠	TO-92	PNP	45	125 @ 2mA	★	Call	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Transistors are available online at www.Jameco.com/Semiconductors

FAIRCHILD NPN/PNP Bipolar Transistors

Part No.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	* Minimum order 10 pieces 1	10	100	1000
784853	BCX70K	SOT-23	NPN	45	100 @ 50mA	*	$.035	$.029	$.027
784790	BC549B	TO-92	NPN	30	110 @ 2mA	*	.079	.059	.044
873258	MMBT2222A_NL	SOT-23	NPN	40	35 @ 0.1mA	*	.027	.025	.017
873291	MMBT3904_NL	SOT-23	NPN	40	40 @ 0.1mA	*	.026	.025	.016
783527	2N4401_D81Z	TO-92	NPN	40	20 @ 0.1mA	*	.059	.049	.044
783498	2N4401TA	TO-92	NPN	40	20 @ 0.1mA	*	.049	.044	.024
786710	MMBT4401_NL	SOT-23	NPN	40	20 @ 0.1mA	*	.03	.025	.016
873274	MMBT2907A_NL	SOT-23	PNP	60	75 @ 0.1mA	*	.039	.033	.019
783455	2N3906BU	TO-92	PNP	40	60 @ 0.1mA	*	.033	.027	.017
786728	MMBT4403_NL	SOT-23	PNP	40	30 @ 0.1mA	*	.03	.025	.016
33021	TIP29A	TO-220	NPN	60	15 @ 1A	.43	.395	.382	.306
179354	TIP31C	TO-220	NPN	100	10 @ 3A	.49	.37	.30	.18
179371	TIP41C	TO-220	NPN	100	15 @ 3A	.35	.31	.248	.186
179240	TIP102	TO-220	NPN	100	1k @ 3A	.46	.384	.36	.348
179291	TIP120	TO-220	NPN	60	1k @ 3A	.54	.47	.39	.33
179303	TIP122	TO-220	NPN	100	1k @ 3A	.55	.42	.32	.195
254799	BC547C⊕	TO-92	NPN	45	600 @ .002A	*	.046	.039	.025
178597	2N3904	TO-92	NPN	40	100 @ .01A	*	.09	.06	.045
179320	TIP127	TO-220	PNP	100	1k @ 3A	.39	.33	.249	.207
178618	2N3906	TO-92	PNP	40	100 @ .01A	*	.046	.042	.033

NPN/ PNP Bipolar Transistors NEW

Part No.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	* Minimum order 10 pieces 1	10	100	1000
890568	TIP35C	TO-218	NPN	100	25 @ 1.5A	$1.13	$1.04	$.97	$.83
890445	TIP142	TO-218	NPN	100	1000 @ 0.5A	1.43	1.34	1.24	1.12
924289	2N2222	TO-39	NPN	30	35 @ 0.1mA	.55	.507	.479	.448
924300	2N6284	TO-3/2	NPN	100	750 @ 10A	3.69	3.05	2.79	2.37
890592	TIP36C	TO-218	PNP	100	25 @ 1.5A	1.13	1.11	1.03	.84
812990	TIP145	TO-218	PNP	60	1000 @ 5A	1.39	1.31	1.22	.97
890488	TIP147	TO-218	PNP	100	1000 @ 5A	1.43	1.34	1.25	1.13
924297	2N2907	TO-39/3	PNP	-40	75 @ -10mA	.51	.49	.46	.37
811241	D45H11	TO-220/3	PNP	-80	60 @ -2A	.44	.41	.37	.35
869603	2SB772♠	TO-216	PNP	30	100 @ 100mA	*	.372	.294	.265

TOSHIBA NPN Bipolar Transistor

Part No.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	1	10	100	1000
832499	2SC5200-O	TO-3P	NPN	230	55 @ 1A	$2.45	$1.94	$1.85	$1.73

NPN/PNP Bipolar Transistors

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	* Minimum order 10 pieces 1	10	100	1000
26462	MPSA06	TO-92	NPN	80	100k @ .01A	*	$.018	$.016	$.014
26489	MPSA13 *	TO-92	NPN	30	5k @ .01A	*	.059	.034	.028
210593	MPSA14	TO-92	NPN	30	20k @ .10A	*	.067	.042	.032
210681	MPSA18	TO-92	NPN	45	500 @ .001A	*	.083	.066	.059
33048	TIP31A *	TO-220	NPN	60	10 @ 3A	.49	.39	.35	.29
33081	TIP41A	TO-220	NPN	60	15 @ 3A	.59	.531	.425	.319
178546	MPSA42	TO-92	NPN	30	40 @ .03A	*	.096	.044	.033
32977	TIP102 *	TO-220	NPN	100	1k @ 3A	.57	.49	.41	.245
32993	TIP120 *	TO-220	NPN	60	1k @ 3A	.49	.45	.39	.27
120221	BPW77NA	TO-18	NPN	70	—	1.99	1.89	1.55	1.21
120416	TIP122	TO-220	NPN	100	1k @ 3A	.42	.37	.35	.26
38228	2N2219A	TO-39	NPN	40	100 @ .15A	.41	.37	.31	.28
26446	MPQ2222	DIP-14	NPN	40	100 @ .15A	2.79	2.52	2.29	2.13
28628	PN2222⊕ **	TO-92	NPN	30	100 @ .15A	*	.065	.041	.025
213938	MMBT2222A⊕	SOT-23	NPN	40	100 @ .15A	*	.04	.03	.02
210673	MPS2222A	TO-92	NPN	40	40 @ .50A	*	.058	.052	.045
178511	PN2222A	TO-92	NPN	40	100 @ .15A	*	.13	.092	.051
38236	2N2222A *	TO-18	NPN	40	100 @ .15A	.42	.41	.39	.37

*10 pcs./**100 pcs. in Transistor cabinet kit, right

NPN/PNP Bipolar Transistors (Continued)

Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	* Minimum order 10 pieces 1	10	100	1000
38295	2N3053*	TO-39	NPN	40	25 @ .15A	$.51	$.45	$.38	$.34
211385	TIP3055	TO-218	NPN	60	5 @ .001A	1.39	1.23	.88	.78
38308	2N3055 *	TO-3	NPN	60	15 @ 10A	.89	.79	.68	.51
211406	2N3055A	TO-3	NPN	60	20 @ 4A	1.55	1.40	1.12	.84
25857	MJE3055T	TO-220	NPN	60	20 @ 4A	.53	.49	.45	.39
194415	2N3439	TO-39	NPN	350	40 @ .02A	.53	.477	.382	.36
209242	2N3771	TO-3	NPN	40	15 @ 15A	1.99	1.74	1.63	1.28
140151	2N3773	TO-3	NPN	140	15 @ 8A	2.69	2.55	2.26	2.07
94967	MMBT3904	SOT-23	NPN	40	100 @ .01A	*	.042	.034	.025
38359	2N3904⊕ **	TO-92	NPN	40	100 @ .01A	*	.069	.057	.035
38421	2N4401*	TO-92	NPN	40	100 @ .15A	*	.08	.06	.05
310666	2N5038	TO-3	NPN	150	20 @ 12A	8.19	7.37	5.90	4.43
194600	2N6059	TO-3	NPN	100	750 @ 6A	1.75	1.54	1.49	1.42
194618	2N6547	TO-3	NPN	400	12 @ 5A	2.99	2.84	2.68	2.42
194626	2N6678	TO-3	NPN	400	8 @ 15A	6.79	6.15	5.75	4.49
33030	TIP30A	TO-220	PNP	60	15 @ 1A	.60	.54	.43	.323
33064	TIP32A*	TO-220	PNP	60	10 @ 3A	.37	.335	.28	.23
181841	TIP32C	TO-220	PNP	100	10 @ 3A	.29	.261	.222	.167
33101	TIP42A	TO-220	PNP	60	15 @ 3A	.39	.36	.293	.278
139580	TIP42C	TO-220	PNP	100	15 @ 3A	.31	.276	.261	.248
179258	TIP107	TO-220	PNP	100	1k @ 3A	.54	.45	.36	.27
288526	TIP115	TO-220	PNP	60	1k @ 1A	.31	.28	.22	.167
33013	TIP125	TO-220	PNP	60	1k @ 3A	.49	.45	.29	.26
194378	2N2905A	TO-39	PNP	60	100 @ .15A	.49	.428	.349	.261
26454	MPQ2907	DIP-14	PNP	40	100 @ .15A	2.19	1.97	1.58	1.19
28644	PN2907**	TO-92	PNP	40	100 @ .15A	*	.106	.085	.045
211342	MPS2907A	TO-92	PNP	60	100 @ .15A	*	.069	.061	.046
178520	PN2907A	TO-92	PNP	60	100 @ .15A	*	.075	.055	.027
38279	2N2907A *	TO-18	PNP	60	100 @ .15A	.38	.333	.286	.215
25831	MJE2955T	TO-220	PNP	60	20 @ 4A	.53	.375	.361	.272
38375	2N3906**	TO-92	PNP	40	100 @ .01A	*	.051	.035	.034
38447	2N4403*	TO-92	PNP	40	100 @ .15A	*	.047	.04	.036
194571	2N6042	TO-220	PNP	100	1k @ 3A	.55	.498	.423	.372
194597	2N6052	TO-3	PNP	100	750 @ 6A	3.19	2.64	2.07	1.55

*10 pcs./**100 pcs. in Transistor cabinet kit, below

J-FETs

Please Note: Manufacturer may vary

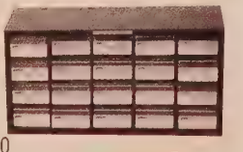
Part No.	Cross Ref.	Pkg.	Desc.	BV_{GS} @ I_G(µA)	I_{DSS} (mA) @ V_{DS}	1	10	100	1000
26403	MPF102 *	TO-92	N-Ch	-25 @ -10	2 @ 15	$.21	$.155	$.084	$.053
253948	2N5457	TO-92	N-Ch	-25 @ -10	1 @ 15	.20	.18	.126	.102
253921	2N5458	TO-92	N-Ch	-25 @ -10	2 @ 15	.29	.23	.18	.16
38527	2N5951*	TO-92	N-Ch	-30 @ -1	7 @ 15	.69	.64	.44	.33
253913	2N5460	TO-92	P-Ch	40 @ 10	-1 @ -15	.47	.423	.338	.254

*10 pcs. in Transistor cabinet kit, below

FAIRCHILD IGBT

Part No.	Product No.	Pkg.	BV_{CES}	I_{CES}	1	10	100
785881	HGTP20N60A4	TO-220AB	600V	20mA	$5.05	$4.21	$3.70

Transistor Assortment Cabinet Kit



Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 138 and 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907

SAVE $14

Part No.	Description	Wt. (lbs.)	1	10
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	$75.95	$74.59
130374	Refill for 82595 (560 pcs.)	0.4	61.95	46.46

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional MOSFETs are available online at www.Jameco.com/Semiconductors

FAIRCHILD SEMICONDUCTOR N-Channel & P-Channel MOSFETs

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
870209	BUZ11_R4941	TO-220AB	N-Ch	50	30A	$.82	$.66	$.50	$.387
787798	RFP12N10L	TO-220AB	N-Ch	100	12A	.75	.63	.54	.459
787755	RFD14N05L♠	TO-251AA	N-Ch	50	14A	.69	.58	.461	.334
873602	MTP3055VL	TO-220	N-Ch	60	12A	.81	.68	.539	.476
875034	RFP40N10♠	TO-247	N-Ch	100	40A	1.29	1.03	.78	.73
785590	FQP50N06	TO-220	N-Ch	60	—	1.03	.86	.69	.52
875051	RFP50N06	TO-220AB	N-Ch	60	50A	.99	.89	.75	.61
871092	FDV303N	SOT-23	N-Ch	25	0.5A†	.30	.235	.18	.16
178669	2N7000*	TO-92	N-Ch	60	0.2A	.25	.194	.136	.111
875077	RFP70N06	TO-220AB	N-Ch	60	70A	1.79	1.64	1.45	1.19
787851	RFP70N06_NL♠	TO-220AB	N-Ch	60	70A	1.95	1.64	1.45	1.40
871017	FDN337N	SuperSOT-3	N-Ch	30	10A	.55	.461	.337	.22
874875	NDT3055L	SOT-223	N-Ch	60	10A	.61	.51	.42	.24
787835	RFP3055LE_NL♠	TO-251AA	N-Ch	60	11A	.63	.51	.478	.40
785901	HRF3205♠	TO-220AB	N-Ch	55	100A	1.79	1.45	1.08	.98
787501	NDP4060L	TO-220	N-Ch	60	15A	.87	.70	.59	.51
783578	2N5459	TO-92	N-Ch	25	—	✳	.119	.099	.077
783586	2N7000_D75Z	TO-92	N-Ch	60	75mA	✳	.109	.089	.068
783594	2N7000_NL	TO-92	N-Ch	60	75mA	✳	.085	.08	.06
783607	2N7002MTF	SOT-23	N-Ch	60	500mA	✳	.079	.069	.051
785936	HUF75344G3♠	TO-247	N-Ch	55	75A	2.25	1.80	1.35	1.30
785961	HUF75645P3♠	TO-220AB	N-Ch	100	75A	2.29	1.91	1.79	1.67
785514	FQA36P15	TO-3P	P-Ch	-150	-36A	3.69	3.24	2.69	1.30
870188	BSS84	SOT-23	P-Ch	-50	-0.6A	✳	.118	.099	.06
871113	FDV304P	SOT-23	P-Ch	-25	-1A†	.50	.36	.294	.265
870971	FDC640P	Super SOT-6	P-Ch	-20	-20A	.39	.337	.279	.24

†Digital FET *10 pcs. in Transistor cabinet kit, pg 33 ✪ Blue Part No. = Limited Quantity Available

IOR International Rectifier N-Channel MOSFETs

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
1559885	IRF510PBF	TO-220AB	N-Ch	100	5.6A	$1.12	$.91	$.79	$.42
1560270	IRF640N	TO-220AB	N-Ch	200	18A	3.15	2.08	1.95	1.81
1559551	IRF1404PBF♠	TO-220AB	N-Ch	40	202A	★	Call	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

ON Semiconductor® N-Channel & P-Channel MOSFETs

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
802732	NTB60N06	D2PAK	N-Ch	60	60A	$1.59	$1.48	$1.25	$1.13
885718	2N7000RLRA	TO-92	N-Ch	60	0.2A	✳	.105	.095	.086
879203	MTP2P50E	TO-220	P-Ch	500	2A	2.65	2.23	1.87	1.68

TOSHIBA N-Channel MOSFETs

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
832552	2SK2837	TO-3P	N-Ch	500	20A	$4.29	$3.84	$3.47	$3.12

VISHAY N-Channel & P-Channel MOSFETs NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
815787	SUP60N06-18	TO-220AB	N-Ch	60	60A	$3.65	$3.48	$3.18	$2.86
1919861	2N7002E-T1-E3♠	TO-236	N-Ch	60	500mA	✳	.048	.046	.044
1919887	2N7002-T1♠	TO-236	N-Ch	60	500mA	★	Call	Call	Call
1926657	SI4410BDY-T1-E3♠	SOIC-8	N-Ch	30	20A	★	Call	Call	Call
1926622	SI2301BDS-T1-E3♠	TO-236	P-Ch	-20	-3A	✳	.204	.193	.184

★ Please call or visit our website for minimum order quantity and pricing

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

N-Channel & P-Channel MOSFETs

Manufacturer may vary

✳ Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
669871	IRFZ24N	TO-220AB	N-Ch	55	17A	$.56	$.445	$.401	$.335
669927	IRFBG30	TO-220AB	N-Ch	1000	3.1A	1.39	1.11	1.01	.75
669935	IRFZ34N	TO-220AB	N-Ch	55	26A	.59	.468	.42	.348
669943	IRLZ34N	TO-220AB	N-Ch	55	30A	.69	.65	.60	.527
669951	IRFZ44N	TO-220AB	N-Ch	55	49A	.78	.62	.56	.52
669978	IRFZ46N	TO-220AB	N-Ch	55	53A	.99	.94	.88	.71
669986	IRFZ48N	TO-220AB	N-Ch	55	64A	.86	.69	.62	.57
256031	BS170	TO-92	N-Ch	60	—	✳	.10	.07	.06
670080	IRFP250	TO-247	N-Ch	200	30A	2.45	1.99	1.78	1.33
670101	IRFP260N	TO-247	N-Ch	200	50A	3.25	2.58	2.19	1.97
670135	IRFP450	TO-247	N-Ch	500	14A	2.45	1.98	1.79	1.50
670143	IRFP460	TO-247	N-Ch	500	20A	2.75	2.22	1.99	1.49
209234	IRF510	TO-220	N-Ch	100	5.6A	.69	.59	.55	.49
209226	IRF520	TO-220	N-Ch	100	10A	.56	.48	.45	.40
209058	IRL520N	TO-220	N-Ch	100	10A	.77	.62	.56	.465
210500	IRF530	TO-220	N-Ch	100	14A	.66	.57	.52	.39
670151	IRF530N	TO-220AB	N-Ch	100	17A	.71	.58	.444	.37
210518	IRF540	TO-220	N-Ch	100	27A	.78	.63	.57	.48
210526	IRF620	TO-220	N-Ch	200	6.0A	.45	.42	.35	.264
210534	IRF630	TO-220	N-Ch	200	9.0A	.73	.65	.58	.49
210542	IRF640	TO-220	N-Ch	200	18A	.82	.75	.62	.465
670231	IRF644	TO-220AB	N-Ch	250	14A	.99	.88	.74	.65
210551	IRF730	TO-220	N-Ch	400	5.5A	.86	.65	.51	.382
210569	IRF740	TO-220	N-Ch	400	10A	1.25	1.10	.89	.80
210577	IRF820	TO-220	N-Ch	500	4.0A	.48	.46	.43	.28
210585	IRF830	TO-220	N-Ch	500	4.5A	.78	.74	.71	.53
184719	IRF840	TO-220	N-Ch	500	8.0A	1.28	1.05	.88	.50
670282	IRF1405	TO-220AB	N-Ch	55	169A	3.85	3.44	2.87	2.22
279460	VN2222LL	TO-92	N-Ch	60	.75A	.35	.302	.194	.145
618089	IRF3205⊕	TO-220	N-Ch	55	110A	2.39	1.75	1.45	1.26
670354	IRF3415	TO-220AB	N-Ch	150	43A	1.75	1.58	1.26	.94
618071	IRL3705⊕	TO-220	N-Ch	55	89A	1.37	1.23	.98	.74
119423	2N7000	TO-92	N-Ch	60	0.3A	✳	.11	.10	.09
140169	2N7002	SOT-23	N-Ch	60	0.5A	✳	.084	.038	.028
256057	BS250	TO-92	P-Ch	-45	—	.37	.34	.30	.20
670442	IRF4905	TO-220AB	P-Ch	-55	-74A	2.09	1.96	1.84	1.52
670451	IRF4905S	D2PAK	P-Ch	-55	-74A	2.59	1.98	1.67	1.43
670477	IRF5210	TO-220AB	P-Ch	-100	-40A	1.69	1.37	1.32	1.29
670485	IRF5305	TO-220AB	P-Ch	-55	-31A	1.29	1.19	1.13	1.07
670522	IRLML6401	SOT-23	P-Ch	-12	-12A	.26	.218	.20	.15
670531	IRF7404	SOIC-8	P-Ch	-20	-7.7A	.73	.65	.53	.397
670565	IRFR9024	TO-252AA	P-Ch	-60	-8.8A	.65	.53	.48	.36
670581	IRF9Z34N	TO-220AB	P-Ch	-55	-1.8A	.84	.71	.64	.534
670629	IRF9520	TO-220AB	P-Ch	-100	6A	.72	.58	.44	.42
670741	IRF9530	TO-220AB	P-Ch	-100	-12A	.82	.66	.59	.492
670637	IRF9530N	TO-220AB	P-Ch	-100	-14A	.95	.75	.66	.56
670645	IRF9540N	TO-220AB	P-Ch	-100	-23A	1.19	1.03	.92	.77
670653	IRF9640	TO-220AB	P-Ch	-200	-11A	1.49	1.34	1.08	.81

intersil MOSFETs

Part No.	Product No.	Pkg.	Description	1	10	100	1000
1140831	ICL7667CPA♠	DIP-18	Dual pwr MOSFET driver	$1.65	$1.24	$1.18	$1.13

IOR International Rectifier Hexfet Power MOSFETs NEW

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
1562507	IRFR024NPBF♠	DPACK	N-Ch	55	17A	$.68	$.54	$.49	$.42
1563454	IRLD024PBF♠	HD-1	N-Ch	60	2.5A	.65	.56	.51	.47
1563147	IRFZ44NPBF	TO-220AB	N-Ch	55	49A	.93	.76	.70	.63
1561918	IRFD120PBF♠	DIP-4	N-Ch	100	1.3A	.87	.79	.71	.55
1562304	IRFP260NPBF	TO-247AC	N-Ch	200	50A	3.19	2.61	2.39	2.13
1562363	IRFP450PBF	TO-247AC	N-Ch	500	14A	2.49	1.95	1.75	1.49
1559990	IRF530NPBF♠	TO-220AB	N-Ch	100	17A	1.25	1.02	.94	.85

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Heat Sinks are available online at www.Jameco.com/Semiconductors

International Rectifier Hexfet Power MOSFETs (Cont.) NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Desc.	BV_{DS}	Min. On-St. DS Current	1	10	100	1000
1560051	IRF540NPBF ♻♠	TO-220AB	N-Ch	100	33A	$1.23	$1.11	$.92	$.83
1559666	IRF3415PBF ♻♠	TO-220AB	N-Ch	150	43A	1.89	1.54	1.39	1.15
1561352	IRF7822PBF ♻♠	SO-8	N-Ch	30	13A	2.49	2.02	1.82	1.52
1561387	IRF7832PBF ♻♠	SO-8	N-Ch	30	16A	1.79	1.54	1.39	1.25
1559931	IRF5210SPBF ♻♠	D2PAK	P-Ch	-140	-40A	1.95	1.63	1.47	1.32
1559965	IRF5305PBF ♻♠	TO-220AB	P-Ch	-55	-31A	1.25	1.11	.98	.88
1922509	IRLML6401TR♠	Micro-3	P-Ch	-12	-4.3	✳	.184	.174	.165
1563729	IRLML6402TRPBF ♻	Micro-3	P-Ch	-20	-3.7A	.35	.28	.253	.211
1560747	IRF7341 ♻♠	SO-8	Dual N-Ch	55	3.8A	1.79	1.62	1.45	1.34
1560940	IRF7416PBF ♻♠	SO-8	P-Ch	-30	-7.1A	.68	.62	.60	.58
1561150	IRF7530PBF ♻	Micro-8	Dual N-Ch	20	5.4A	.78	.62	.56	.476
1561547	IRF9540♠	TO-220AB	P-Ch	-100	19A	3.05	2.81	2.63	2.11

Wakefield Thermal Solutions Heat Sinks



1582591 1582639 1582663 1582743 1582698

1582794 1582831 1582778 1582541 1582575

Low-Power

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582591	217-36CT6	D2Pak/TO-220/SOT-223/SOL-20	.74 x .60 x .36	$.32	$.304	$.284
1582604	21736CTE6 ♻	D2Pak/TO-220/SOT-223/SOL-20	.74 x .60 x .36	.44	.297	.262
1582612	218-40CT3	Surface Mount	.32 x .90 x .40	.72	.57	.48
1582621	218-40CT5	Surface Mount	.50 x 1.03 x .40	.63	.51	.44
1582639	230-75AB ♻	TO-220, LP, vert/horiz mnt	.50 x .57 x .75	.34	.277	.238
1582647	262-75AB-05	TO-220, horizontal mount	.50 x .75 x .53	.49	.396	.337
1582655	274-2AB	TO-220, low-cost, low-height	.75 x .52 x .38	.41	.294	.206
1582671	288-1ABE ♻	TO-220/TO-202 compact	.22 x .88 x 1.25	.97	.77	.76
1582680	289-ABE	TO-218/TO-202/TO-220	.71 x 1.0 x .50	.45	.322	.276
1582663	287-1AB	TO-220, low-cost	.50 x 1.0 x 1.18	1.07	.91	.85

High-Power

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582743	637-15ABP	TO-220, high-eff., vertical	.50 x 1.38 x 1.0	$2.35	$1.70	$1.23
1582751	637-15ABPE ♻	TO-220, high-eff., vertical	.50 x 1.38 x 1.0	2.09	1.50	1.18
1582840	667-10ABPP	TO-220, SpeedCLIP™	.50 x 1.38 x 1.0	1.69	1.60	1.46
1582760	647-15ABP	TO-220, high-performance	1.0 x 1.65 x 1.5	1.37	1.09	.93

BGA

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582698	624-35ABT4	Omni-directional pin fin for 21mm	.83 x .83 x .35	$2.39	$2.25	$2.15
1582701	625-25ABT4	Omni-directional pin fin for 25mm	.98 x .98 x .25	1.99	1.83	1.74
1582719	625-35AB ♻	Omni-directional pin fin for 25mm	.98 x .98 x .35	1.03	1.00	.97
1582794	658-35AB ♻	Omni-directional pin fin for 27mm	1.1 x 1.1 x .35	1.04	.83	.70
1582807	658-45ABT4	Omni-directional pin fin for 27mm	1.1 x 1.1 x .45	2.65	2.14	1.78
1582815	658-60AB ♻	Omni-directional pin fin for 27mm	1.1 x 1.1 x .60	1.79	1.31	.92
1582823	658-60ABT2	Omni-directional pin fin for 27mm	1.1 x 1.1 x .60	2.65	2.43	2.21
1582831	659-65ABT1	Unidirectional pin fin for 37mm	1.45 x 1.45 x .65	3.15	3.09	2.53

DIP

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582778	651-B ♻	14/16-pin DIP & SRAM extruded	.25 x .74 x .24	$.83	$.59	$.50

Accessories

Part No.	Product No.	Description	1	10	100
1582541	120-8 ♻	Silicon oil-based compound 8oz. jar	$27.65	$20.64	$19.78
1582559	173-7-220P ♻	DeltaPAD™ insulator for TO-220	.41	.362	.313
1582575	175-6-240-P ♻	KAPTON™ reinforced insulator for TO-220	.41	.294	.206

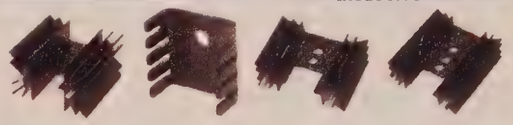
AAVID THERMALLOY Heat Sink NEW

Minimum order 5 pieces

Part No.	Product No.	Type	Size (L" x W" x H")	5	100
1115643	577202B00000G ♻♠	TO-220	0.75 x 0.52 x 0.5	$.206	$.185

Jameco Heat Sinks JAMECO EXCLUSIVE

Our heat sinks are made from black anodized aluminum (except for P/N 107297 which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622 can be mounted vertically with solderable mounting tabs.



326757 326596 326693 326713

Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
326757	529801B02500 ♻	TO-218	1.64 x 0.98 x 1.51	$1.02	$.98	$.83	$.71
326596	507302B00000	TO-220	0.75 x 0.38 x 0.74	.25	.23	.20	.18
326693	531002B05200 ♻	TO-220	1.38 x 0.50 x 1.00	.84	.75	.65	.495
326713	531102B02500 ⊕	TO-220	1.38 x 0.50 x 1.51	.92	.90	.88	.74

Great Prices on Special Buys✳

16513	DUDE4 ♻	TO-3	4.80 x 1.50 x 1.30	$3.69	$3.43	$3.10	$2.80
151547	635-125B2 ♻	TO-3	1.90 x 1.40 x 1.30	1.45	1.31	1.05	.85
189835	635-5B2	TO-3	1.90 x 1.40 x 0.50	.73	.67	.64	.61
70915	THM6106 ♻	TO-220	1.20 x 1.00 x 0.50	.39	.334	.311	.289
42622	563002B00000 ⊕	TO-220	1.20 x 1.00 x 0.50	.33	.291	.273	.254
40504	291-H-36AB ⊕	TO-220	0.90 x 1.00 x 0.40	.76	.55	.477	.414
158051	577102B00000	TO-220	0.75 x 0.52 x 0.38	.39	.35	.28	.21
70658	THM6073 ⊕	TO-220	0.80 x 0.70 x 0.40	.29	.269	.26	.25
107297	PSC2-U (cup-style) ⊕	TO-220	0.80 x 1.00 x 0.40	.49	.44	.40	.32

✳Manufacturer may vary

Heat Sink Mounting Kit

- TO-220 heat sink insulator assemblies
- 10 kits per pack



Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	$3.95	$3.55	$3.19

DIODES Small Signal Diodes

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
1537969	1N4148-T	DO-35	100VRM, 150mA	✳	$.024	$.019
1538005	1N4148WT-7 ♻	SOD-523	100VRM, 2A	.37	.275	.186

Fairchild Semiconductor Small Signal Diodes

Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	10	100
743824	1N914TR ♻	DO-35	100VRRM, 0.2A	$.033	$.023
743285	1N4148_NL ♻	DO-35	100VRRM, 0.2A	.016	.015
743306	1N4148TR	DO-35	100VRRM, 0.2A	.026	.023

VISHAY Small Signal Diodes

Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	10	100
179207	1N914	DO-35	100PRV	$.05	$.025
743314	1N4148-TR ♻	DO-35	100VRRM, 0.5A	.029	.02
1039433	MMSZ5230B-V-GS08 ♻	SOD123	4.7Vz,0.02A	.061	.046

Small Signal Diodes

Please Note: Manufacturer may vary

Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	10	100
36311	1N914 ♻ **	DO-35	75PRV, 0.01A	$.022	$.018
655269	1N914A ♻	DO-35	100VRRM, 0.2A	.025	.015

**100 pcs. in Diode/Rectifier cabinet kit, pg 38

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Diodes are available online at www.Jameco.com/Semiconductors

DIODES INCORPORATED Zener Diodes

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{Znom}	Pwr Dissipation	1	10	100
1538101	1N4744A-T	DO-41	15.0V	1W	✳	$.069	$.041
1539649	BZT52C5V1-7-F	SOD-123	5.1V	0.5W	.40	.304	.228
1539526	BZT52C13-7-F	SOD-123	13.0V	0.5W	.40	.307	.23
1542717	ZMM5231B-7	MiniMELF	5.1V	0.5W	.35	.243	.174
1539884	BZX84C4V7-7-F	SOT-23	4.7V	0.35W	.43	.294	.221
1539905	BZX84C5V6-7-F	SOT-23	5.6V	0.35W	.43	.294	.198
1539913	BZX84C6V2-7-F	SOT-23	6.2V	0.35W	.43	.294	.198

FAIRCHILD SEMICONDUCTOR Zener Diodes

Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{Znom}	Pwr Dissipation	10	100
784917	BZX55C12	DO-35	12.7V	0.5W	$.039	$.035
785012	BZX84C4V3	SOT-23	4.6V	0.35W	.039	.035
784950	BZX84C10	SOT-23	9.4V	0.35W	.056	.049
743787	1N753A	DO-35	6.2V	0.5W	.039	.035
783261	1N748A	DO-35	3.9V	0.5W	.04	.035
743752	1N750A	DO-35	4.7V	0.5W	.08	.058
743795	1N75AA	DO-35	6.8V	0.5W	.035	.03
743331	1N4728ATR	DO-41	3.3V	1W	.035	.032
782786	1N4730ATR	DO-41	3.9V	1W	.061	.041
782794	1N4734ATR	DO-41	5.6V	1W	.061	.052
743373	1N4735ATR	DO-41	6.2V	1W	.098	.078
782823	1N4736ATR	DO-41	3.8V	1W	.035	.032
743381	1N4737ATR	DO-41	7.5V	1W	.069	.041
743390	1N4739ATR	DO-41	9.1V	1W	.035	.032
782831	1N4740ATR	DO-41	10.0V	1W	.035	.032
743411	1N4742ATR	DO-41	12.0V	1W	.061	.055
743429	1N4743ATR	DO-41	13.0V	1W	.061	.046
743437	1N4744ATR	DO-41	15.0V	1W	.079	.069
743445	1N4745ATR	DO-41	16.0V	1W	.032	.031
782882	1N4746ATR	DO-41	18.0V	1W	.035	.032
743461	1N4747ATR	DO-41	20.0V	1W	.049	.039
782911	1N4748ATR	DO-41	22.0V	1W	.065	.041
782920	1N4749ATR	DO-41	24.0V	1W	.049	.039
743470	1N4750ATR	DO-41	27.0V	1W	.065	.041
782946	1N4751ATR	DO-41	30.0V	1W	.035	.032
782962	1N4752ATR	DO-41	33.0V	1W	.074	.065
783009	1N5228B	DO-35	3.9V	0.5W	.039	.027
783084	1N5234B_NL	DO-35	6.2V	0.5W	.039	.027
783113	1N5239BTR	DO-35	9.1V	0.5W	.039	.027

ON Semiconductor® Zener TVS

NEW ✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{RWM}	Power	1	10	100
803508	SA5.0AG	59AA	5V	500W	$.50	$.436	$.287
1307004	1N6373G ♠	41A	5V	1500W	✳	.333	.312

ON Semiconductor® Zener Diodes

NEW ✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{Znom}	Pwr Dissipation	1	10	100
1921012	BZX84C5V1LT1G ♠	SOT-23	5.1V	225mW	✳	$.024	$.022
1925005	MMBZ5231BLT1G ♠	SOT-23	5.1V	225mW	✳	.024	.022
1925013	MMBZ5232BLT1G ♠	SOT-23	5.6V	225mW	✳	.024	.022
1925161	MMSZ5234BT1G ♠	SOD-123	6.2V	500mW	✳	.036	.035
1925187	MMSZ5240BT1G ♠	SOD-123	10.0V	500mW	✳	.036	.035
743980	1SMB5927BT3G ♠	SMB	12.0V	3W	✳	.335	.304
744000	1SMB5931BT3 ♠	SMB	18.0V	3W	✳	.149	.14
1308322	1SMB5918BT3G ♠	SMB	5.1V	3W	✳	.158	.149
804607	1N5339BG	Sumetic-40	5.6V	5W	.20	.183	.167
804623	1N5341BG	Sumetic-40	6.2V	5W	.20	.183	.167
743584	1N5342BG ♠	Sumetic-40	6.8V	5W	✳	.228	.208
804711	1N5347BG ♠	017AA	10.0V	5W	✳	.228	.208
804818	1N5352BG ♠	Sumetic-40	15.0V	5W	✳	.173	.157
804914	1N5359BG ♠	Sumetic-40	24.0V	5W	✳	.228	.208
743605	1N5363BG ♠	Sumetic-40	30.0V	5W	✳	.223	.203
1305367	1N5365BG ♠	Sumetic-40	36.0V	5W	✳	.17	.159
804973	1N5366BG	017AA	39.0V	5W	.45	.359	.323
1305412	1N5368BG	017AA	47.0V	5W	✳	.172	.156
805010	IN5369BG	017AA	51.0V	5W	.50	.454	.403

NXP / PHILIPS Zener Diodes

Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{Znom}	Pwr Dissipation	10	100
743402	1N4742AT/R	DO-41	12.0V	1W	$.039	$.035
850654	BZV55-C5V1T/R	SOD-80C	5.0V	0.5W	.061	.045
850857	BZX84-C11T/R	SOT-23	10.8V	0.25W	.049	.039

VISHAY Zener Diodes

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	V_{Znom}	Pwr Dissipation	1	10	100
178773	1N4732A	DO-41	4.7V	1W	✳	$.088	$.069
813271	1N4732A-TAP	DO-41	4.7V	1.3W	.36	.284	.274
813319	1N4733A-TR	DO-41	5.1V	1.3W	✳	.098	.078
813360	1N4741A-TR	DO-41	11.0V	1.3W	✳	.098	.078

Zener Diodes

Please Note: Manufacturer may vary

Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	V_{Znom}	Pwr Dissipation	10	100
36290	1N751A *	DO-35	5.1V	0.5W	$.03	$.022
36097	1N4733A *	DO-41	5.1V	1W	.08	.065
178837	1N4739A	DO-41	9.1V	1W	.057	.038
36169	1N4742A *	DO-41	12V	1W	.074	.059
36185	1N4744A	DO-41	15V	1W	.058	.035
179047	1N5231B	DO-35	5.1V	0.5W	.035	.026

*10 pcs. in Diode/Rectifier cabinet kit, pg 38

AVAGO TECHNOLOGIES Diodes

Part No.	Product No.	Pkg.	Breakdown Voltage	Description	1	10	100
1547905	5082-2800	Glass axial	7	Schottky barrier gen. purp.	$1.49	$1.25	$1.11
1547956	5082-2835	Glass axial	8	Schottky barrier gen. purp.	1.49	1.34	1.11
1547981	5082-3080	Glass axial	100	Pin diode for RF swtch & Atten	3.65	3.19	2.61
1547999	5082-3081	Glass axial	100	Pin diode for RF swtch & Atten	3.19	2.94	2.80
1556908	HSMS-282P-BLKG	SOT-363	15	RF schottky barrier bridge quad	1.32	1.22	1.12
1556633	HSMS-2800-BLKG	SOT-23	70	RF schottky barrier single	.39	.314	.305
1556650	HSMS-2802-BLKG	SOT-23	70	RF schottky barrier series	.56	.508	.441
1556668	HSMS-2802-TR1G	SOT-23	70	RF schottky barrier single	.57	.545	.475
1556676	HSMS-2804-BLKG	SOT-23	70	RF schottky barrier common cathode	.51	.46	.414
1556692	HSMS-2805-BLKG	SOT-143	70	RF schottky barrier unconnected pair	.57	.475	.396
1556713	HSMS-2810-BLKG	SOT-23	20	RF schottky barrier single	.57	.433	.40
1556730	HSMS-2812-BLKG	SOT-23	20	RF schottky barrier series	.87	.66	.62
1556828	HSMS-2822-BLKG	SOT-23	15	RF schottky barrier series	.61	.51	.48
1556861	HSMS-2824-BLKG	SOT-23	15	RF schottky barrier com cathode	.62	.47	.43
1556879	HSMS-2825-BLKG	SOT-143	15	RF schottky barrier unconn pair	.62	.51	.46
1556887	HSMS-2825-TR1G	SOT-142	15	RF schottky barrier unconn pair	.63	.52	.48
1556473	HSMP-3810-TR1G	SOT-23	100	RF pin low dist atten sngl comm anode	.52	.475	.438
1556502	HSMP-3814-BLKG	SOT-23	100	RF pin low dist atten com cathode	.82	.63	.58
1556596	HSMP-4810-BLKG	SOT-323	100	RF pin diode low dist atten dual cathode	.74	.67	.60
1556561	HSMP-3864-BLKG	SOT-363	50	Pin diode gen. purp. Unconn trio com cathode	.63	.58	.51
1556609	HSMP-4820-BLGK	SOT-23	50	RF pin diode switch & limiter dual anode	.63	.57	.49
1556924	HSMS-2850-BLKG	SOT-23	150mVF@0.1mA	Zero bias schottky detector diode single	.93	.70	.62
1556991	HSMS-8202-BLKG	SOT-23	250mVF@ 0.1mA	Microwave schottky mixer diode series	1.36	1.13	.93

DIODES INCORPORATED Diodes

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
1538865	B340A-13F	SMA	40VRRM, 3A (Schottky)	$.52	$.434	$.39
1540501	LL4148-7	MiniMELF	100VRRM, 150mA (Fast switch)	✳	.02	.015

FAIRCHILD SEMICONDUCTOR Diodes

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
870145	BAT54_NL	SOT-23	30VRRM, 0.2A (Schottky)	✳	$.046	$.041
953637	ISL9R460P2_NL ♠	TO-220	60VRRM, 4A	1.37	1.11	.95

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Semiconductors are available online at www.Jameco.com/Semiconductors

Infineon Diodes

Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	10	100
1683165	BAS21E6327XT♠	SOT-23	250VRM, 0.25A (Switching)	$.168	$.095
1683405	BAS40E6327XT ♻♠	SOT-23	40VR, 0.12A (Schottky)	.043	.04
1684272	BAV70E6327XT ♻♠	SOT-23	85VRM, 0.20A (Switching)	.019	.017
1684361	BAV99E6327XT ♻♠	SOT-23	85VRM, 0.20A (Switching)	.019	.017
1684379	BAV99SE6327XT ♻♠	SOT-363	85VRM, 0.20A (Switching)	.054	.051
1631269	MMBD914LT1XT ♻♠	SOT-23	100VRM, 250mA	.016	.015

IR International Rectifier Diodes NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
1558356	30BQ040PBF ♻♠	SMC	40VRRM, 30A (Schottky)	✳	$.253	$.237
1559164	HFA08TB60PBF ♻	TO-220AC	600VBR, 8A (Ultrafast recovery)	.69	.64	.60

NXP / PHILIPS Diodes

Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	10	100
915323	BAS40-04T/R ♻	SOT-23	40VR, 120mA (Schottky)	$.137	$.126
915500	BAT54A-CT ♻	SOT-23	30VR, 0.2A (Schottky, double)	.049	.044
915972	BAV99ST/R ♻	SOT-363	85VRRM, 0.5A (Switching)	.063	.06
915251	BAS316T/R ♻	SOD-323	100VRRM, 0.5A (Switching)	.146	.079
743293	1N4148T/R	DO-35	100VRRM, 0.5A (Switching)	.012	.01

ST Diodes

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
743710	1N6263 ♻	DO-35	60VRRM, 50mA (Schottky)	✳	$.08	$.065
743656	1N5711	DO-35	70VRRM, 15mA (Schottky)	.40	.29	.20

ST TRANSIL™ Diodes NEW

Part No.	Product No.	Pkg.	V_{BR} (nom)	I_{RM} @ V_{RM} (max.)	1	10	100
869566	1.5KE15A♠	DO-201	15	1µA @ 12.8V	$.52	$.498	$.475
869582	1.5KE39A ♻♠	DO-201	39	1µA @ 33.3V	.52	.498	.475

VISHAY Diode

Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	10	100
179215	1N4148	DO-35	100PRV (Switching)	$.012	$.009

Diodes

Please Note: Manufacturer may vary

✳ Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
35941	1N270*	DO-7	80PRV (Germanium)	$.99	$.86	$.74
312101	MBR1100	DO-41	100PRV, 1.0A (Schottky)	.27	.19	.125
36038	1N4148 ♻ **	DO-35	75PRV, 0.01A (Switching)	✳	.03	.025
151247	1N4148T	DO-35	75PRV, 0.01A (Switching)	✳	.016	.012

*10 pcs./**100 pcs. in Diode/Rectifier cabinet kit, pg 38

SanRex® Fast-On and Thru-Hole Package Triacs

Part No.	Product No.†	Pkg.	Rating (X_{DRM}, $I_{T(RMS)}$)	1	10	100
658216	TG35E60 ♻	Fast-On	Isolated 35A, 600V	$7.99	$7.09	$6.55
658267	TG35F40 ♻	Fast-On	Isolated 35A, 400V	9.05	7.69	5.77
658275	TG35F60 ♻	Fast-On	Isolated 35A, 600V	8.99	7.78	6.72
657192	TMG8C60F ♻	TO-220F	Isolated 8A, 600V	.86	.81	.76

† For cross references to Littelfuse, ST, and ON Semi products, refer to datasheets @ Jameco.com.

Teccor Triacs

Part No.	Product No.	Pkg.	Type	Rating	1	10	100
220492	Q4008R4	TO-220AB	Triac	400 V_{DRM}, 8A	$.87	$.80	$.73
139336	Q4015L5	TO-220AB	Triac	400 V_{DRM}, 15A	1.55	1.36	1.25
220505	Q6025R6	TO-220AB	Triac	600 V_{DRM}, 25A	2.39	2.03	1.52
220521	Q6035P5	TO-3	Triac	600 V_{DRM}, 35A	8.79	7.46	5.99

Triacs

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Type	Rating	1	10	100
31819	SC146B	TO-220	Triac	200 V_{DRM}, 10A (2N6342)	$1.29	$1.15	$.99
31827	SC146M	TO-220	Triac	600 V_{DRM}, 10A (2N6344)	1.99	1.79	1.61
140425	2N6071A	TO-225AA	Triac	200 V_{DRM}, 4A	.29	.27	.25

ON Semiconductor® SCRs NEW

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Rating	1	10	100
798251	MCR100-6G ♻	TO-92	400VDRM, 0.8A	✳	$.17	$.16
885654	2N6509 ♻	TO-220AB	800VDRM, 25A	1.11	1.01	.91

Teccor SCR

Part No.	Product No.	Pkg.	Rating	1	10	100	1000
160135	S6025L	TO-220AB	600 V_{DRM}, 25A	$1.69	$1.53	$1.37	$1.04

Silicon Controlled Rectifiers (SCRs)

Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Rating	1	10	100	1000
14859	C38M	TO-65	600 PRV, 35A (2N3899)	$6.89	$6.19	$5.59	$5.05
14736	C106B1*	TO-202	200 PRV, 4A (2N6239)†	.67	.54	.46	.40
14752	C122B	TO-220	200 PRV, 8A	.65	.64	.49	.414
14761	C122M	TO-220	600 PRV, 8A†	1.35	1.25	1.05	.69
119802	2N5060	TO-92	25 PRV, 0.8A	.21	.19	.15	.12

†Isolated *10 pcs. in Diode/Rectifier cabinet kit, pg 38

DIODES Rectifiers

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Rating	1	10	100
1538566	6A4-T	R-6	400 V_{RRM}, 6A	$.46	$.376	$.277
1537871	1N4001-T	DO-41	50 V_{RRM}, 1A	✳	.046	.033
1537889	1N4002-T	DO-41	100 V_{RRM}, 1A	✳	.039	.029
1537897	1N4003-T	DO-41	200 V_{RRM}, 1A	✳	.029	.024
1537918	1N4004-T	DO-41	400 V_{RRM}, 1A	.25	.133	.075
1537926	1N4005-T♠	DO-41	600 V_{RRM}, 1A	✳	.09	.065
1537951	1N4007-T	DO-41	1000 V_{RRM}, 1A	.25	.133	.073
1538187	1N4937-T	DO-41	600 V_{RRM}, 1A	✳	.067	.05
1538304	1N5399-T	DO-41	1000 V_{RRM}, 1.5A	✳	.062	.046
1538339	1N5401-T	DO-201AD	50 V_{RRM}, 3A	.40	.275	.206
1538363	1N5404-T	DO-201AD	400 V_{RRM}, 3A	.39	.267	.186
1538380	1N5408-T	DO-201AD	1000 V_{RRM}, 1A	.39	.267	.188
1538419	1N5819HW-7-F ♻	SOD-123	40 V_{RRM}, 1A (Schottky)	.71	.57	.42
1538427	1N5819-T♠	DO-41	40 V_{RRM}, 1A (Schottky)	✳	.074	.069
1538435	1N5822-T	DO-201AD	40 V_{RRM}, 3A (Schottky)	.67	.53	.397

Fairchild Rectifiers

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Rating	1	10	100
785400	FEP16CT ♻	TO-220AB	150 V_{RRM}, 16A	$.98	$.81	$.65
785418	FEP16FT ♻	TO-220AB	300 V_{RRM}, 16A	.94	.78	.63
871594	MBR0520L ♻	SOD-123	20 V_{RRM}, 0.5A (Schottky)	✳	.109	.089

ON Semiconductor® Rectifiers

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Rating	1	10	100
804527	1N4006RLG ♻	59-10	800 @ 1A	✳	$.026	$.023
804543	1N4007RLG ♻	59-10	1000 @ 1A	.25	.225	.127
743664	1N5817G ♻	DO-41	20 @ 1A	✳	.129	.119
743672	1N5818G ♻♠	DO-41	30 @ 1A	✳	.094	.09
743681	1N5819G ♻	DO-41	40 @ 1A	✳	.129	.119
743699	1N5820G ♻♠	DO-201AD	20 @ 3A	✳	.192	.178
805167	1N5821G ♻	DO-201AD	30 @ 3A	.20	.188	.141
805183	1N5822G ♻	DO-201AD	40 @ 3A	.27	.24	.18
743701	1N5822RLG ♻	DO-201AD	40 @ 3A	.32	.272	.204
802020	MUR105G ♻	DO-41	50 @ 1A	.29	.271	.244
879262	MUR110G ♻	DO-41	100 @ 1A	✳	.115	.096

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Rectifiers are available online at www.Jameco.com/Semiconductors

ON Semiconductor® Rectifiers (Continued)

✳ Minimum order 5 pieces

Part No.	Product No.	Pkg.	Rating	1	5	100
879975	MURS120T3G	SMB	200 @ 1A	★	Call	Call
879289	MUR120G	DO-41	200 @ 1A	✳	.206	.177
865864	MBRS130LT3	SMB	30 @ 1A	.31	.297	.223
865899	MBRS130LT3G	SMB	30 @ 1A	★	Call	Call
865944	MBRS130T3G	SMB	30 @ 1A	★	Call	Call
802089	MUR140G	DO-41	400 @ 1A	✳	.154	.142
866058	MBRS140T3G	SMB	40 @ 1A	★	Call	Call
879414	MUR160G	DO-41	600 @ 1A	✳	.139	.104
886622	MBR160G	DO-41	60 @ 1A	✳	.132	.113
886711	MBR360G	DO-201AD	60 @ 6A	✳	.161	.146
886729	MBR360RLG	DO-201AD	60 @ 6A	✳	.159	.121
879668	MUR420G	DO-201AD	200 @ 4A	✳	.21	.189
802353	MUR460G	DO-201AD	600 @ 4A	.37	.307	.267
802433	MURD620CTG	DPAK	200 @ 6A	.35	.288	.268
801553	MR851RLG	DO-201AD	100 @ 3A	✳	.165	.124
802450	MURH860CTG	TO-220AB/3	600 @ 8A	1.17	.98	.74
879810	MUR860	TO-220AC/2	600 @ 8A	1.03	.94	.71
808341	MBR1045G	TO-220AC/2	45 @ 10A	.52	.45	.39
808376	MBR1060G	TO-220AC/2	60 @ 10A	✳	.471	.436
802046	MUR1100EG	DO-41	1000 @ 1A	✳	.254	.214
865784	MBRS1100T3	SMB	100 @ 1A	★	Call	Call
879318	MUR1520G	TO-220AC/2	200 @ 15A	.80	.65	.60
879511	MUR1620CTR	TO-220AB/3	200 @ 16A	1.59	1.36	1.02
802193	MUR1640CTG	TO-220AB/3	400 @ 16A	1.75	1.69	1.49
790647	MBR1645G	TO-220AC/2	45 @ 16A	.69	.58	.53
879094	MRA4004T3	SMA	400 @ 1A	✳	.155	.116
879625	MUR4100EG	DO-201AD	1000 @ 8A	.40	.35	.263
886585	MBR10100G	TO-220AC/2	100 @ 10A	.85	.79	.74
886657	MBR20100CTG	TO-220AB/3	100 @ 20A	.99	.82	.74

★ Please call or visit our website for minimum order quantity and pricing

General Instrument Rectifiers

Minimum order 10 pieces

Part No.	Product No.	Pkg.	Rating	10	100
1543592	1N4001-CT	DO-204AL	50 V_{RRM}, 1A	$.039	$.029
1543613	1N4003-TR	DO-204AL	200 V_{RRM}, 1A	.029	.022
1543648	1N4004-TR	DO-204AL	400 V_{RRM}, 1A	.029	.022
1543728	1N4935-TR	DO-204AL	200 V_{RRM}, 1A	.096	.072

Rectifiers

Please Note: Manufacturer may vary

✳ Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Rating	1	10	100
177754	T6A05L	T6L	50 PIV, 6A	$.36	$.32	$.288
177762	T6A10L	T6L	100 PIV, 6A	.75	.65	.55
177818	T6A100L	T6L	1000 PIV, 6A	.80	.72	.65
35924	1N1188	DO-5	400 PRV, 35A	4.49	4.45	4.14
35975	1N4001 *	DO-41	50 PRV, 1A	✳	.04	.028
76961	1N4002	DO-41	100 PRV, 1A	✳	.043	.031
76970	1N4003	DO-41	200 PRV, 1A	✳	.025	.02
35991	1N4004 **	DO-41	400 PRV, 1A	✳	.04	.028
76988	1N4005	DO-41	600 PRV, 1A	✳	.025	.016
76996	1N4006	DO-41	800 PRV, 1A	✳	.042	.03
36011	1N4007 *	DO-41	1000 PRV, 1A	✳	.04	.03
36249	1N5401	DO-27A	100 PIV, 3A	✳	.134	.101
77083	1N5402	DO-27A	200 PRV, 3A	✳	.141	.127
36265	1N5404 *	DO-27A	400 PRV, 3A	✳	.149	.112
36273	1N5408 *	DO-27A	1000 PRV, 3A	✳	.15	.11
177949	1N5817	DO-204AL	20 PIV, 1A	✳	.12	.09
177957	1N5818	DO-204AL	30 PIV, 1A	✳	.07	.056
177965	1N5819	DO-204AL	40 PIV, 1A	✳	.10	.085
177990	1N5822	DO-201AD	40 PIV, 3A	.24	.201	.15

*10 pcs./ **100 pcs. in Diode/Rectifier cabinet kit, right

DIODES Bridge Rectifiers

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Rating	1	10	100
1540041	DF02S-T	D-S	200 PRV, 1A	✳	$.221	$.207
1540050	DF04S-T	DFS	400 V_{RRM}, 1A	✳	.218	.205
1540421	HD04-T	Mini DIP-4	400 V_{RRM}, 0.8A	.63	.504	.376
1541431	RS402L	RS-4L	100 V_{RRM}, 4A	.74	.64	.60
1541466	RS405L	RS-4L	600 V_{RRM}, 4A	.97	.89	.83

FAIRCHILD Bridge Rectifier

Part No.	Product No.	Pkg.†	Rating	1	10	100
785709	GBPC3504W	GBPC	400 V_{RRM}, 35A	$3.19	$2.67	$2.36

† GBPC – plastic case, metal base

VISHAY General Instruments Bridge Rectifier

Part No.	Product No.	Pkg.	Rating	1	10	100
1544835	GBU8D	GBU	200 V_{RRM}, 8A	$1.27	$1.06	$.80

Bridge Rectifiers

Please Note: Manufacturer may vary

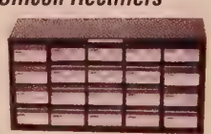
Part No.	Cross Ref.	Pkg.†	Rating	1	10	100
178001	DF005M	DF	50 PIV, 1A	$.49	$.40	$.31
103000	DF01M	DF	100 PIV, 1A	.33	.285	.207
103042	DF02M	DF	200 PIV, 1A	.41	.40	.21
102971	DF04M	DF	400 PIV, 1A	.37	.316	.136
103034	DF06M	DF	600 PIV, 1A	.26	.232	.174
103026	DF10M	DF	1000 PIV, 1A	.27	.227	.17
256575	DF08M	DIP-4	800 PIV, 1.5A	.29	.243	.204
145429	KBP02M	KBP	200 PIV, 1.5A	.52	.441	.312
119562	KBP04M *	KBP	400 PIV, 1.5A	.48	.432	.36
279494	W005G	WOG	50 PIV, 1.5A	.44	.36	.33
103018	W02G	WOG	200 PIV, 1.5A	.48	.386	.306
102980	W04G	WOG	400 PIV, 1.5A	.43	.40	.33
279515	W10G	WOG	1000 PIV, 1.5A	.48	.408	.306
178124	W005M	WOM	50 PIV, 1.5A	.50	.43	.322
178132	W01M	WOM	100 PIV, 1.5A	.49	.42	.315
178183	BR805D	BR8D	50 PIV, 2A	.55	.49	.367
178247	BR810D	BR8D	1000 PIV, 2A	.48	.43	.37
253260	2KBP06M	KBP	600 PIV, 2A	.54	.459	.344
253286	2KBP10M	KBP	1000 PIV, 2A	.66	.56	.42
179477	GBPC25-01	GBPC	100 PIV, 25A	2.29	1.86	1.53
179485	GBPC25-02	GBPC	200 PIV, 25A	2.39	1.94	1.59
178280	MB254	MB35	400 PIV, 25A	2.35	2.10	1.90
178335	TB252	TB35	200 PIV, 25A	2.09	1.85	1.69
25574	MDA990-3	179-01	200 PIV, 30A	3.99	3.45	2.99
25591	MDA990-6	179-01	600 PIV, 30A	4.59	4.29	3.99
299882	GBPC1204	GBPC	400 V_{RRM}, 12A	2.69	2.29	1.72
299874	GBPC1206	GBPC	600 V_{RRM}, 12A	3.15	2.65	1.91
178431	MB358⊕	MB35	800 PIV, 35A	3.59	3.29	2.75
178503	TB3510	TB35	1000 PIV, 35A	3.25	2.65	2.40

*10 pcs. in Diode/Rectifier cabinet kit, below

† DF/KBP/W0G/W0M/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers



Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 138 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

SAVE 10%

Part No.	Description	Wt. (lbs.)	1	10
82587	420 pcs. (15 types) diode kit	5.0	$42.95	$38.95

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Optoisolators are available online at www.Jameco.com/Optos

Optoisolators

Please Note: Manufacturer may vary

Part No.	Cross Ref.	Pkg.	Description	1	10	100
40985	4N25	DIP-6	Diode, NPN phototransistor	$.24	$.22	$.19
41005	4N26	DIP-6	Diode, NPN phototransistor	.25	.207	.153
41013	4N28	DIP-6	Diode, NPN phototransistor	.25	.213	.16
41021	4N32	DIP-6	Diode, NPN photodarlington	.26	.221	.166
41030	4N33	DIP-6	Diode, NPN photodarlington	.29	.28	.25
41056	4N35	DIP-6	Diode, NPN phototransistor	.29	.26	.235
277510	6N135	DIP-8	High-speed transistor optocoupler	.76	.64	.49
42471	6N136	DIP-8	High speed transistor optocoupler	.75	.64	.52
113911	6N137	DIP-8	High-speed logic optocoupler	.65	.51	.48
42489	6N138	DIP-8	Low input curr., hi-gain split darlington	.77	.64	.48
113929	6N139	DIP-8	High-speed, high-gain darlington	.76	.64	.48
18825	H11AA1	DIP-6	Dual infrared diode, NPN phototransistor	.62	.52	.39
113996	H11F1	DIP-6	Isolated FET	1.69	1.39	1.10
113988	H11L1	DIP-6	Schmitt trigger output photocoupler	.63	.58	.56
114083	ISQ203	DIP-16	Quad channel NPN phototransistor	2.95	2.51	1.88
24918	MCT6	DIP-8	Dual channel NPN phototransistor	.68	.55	.413
672325	MCT62	DIP-8	Dual channel NPN phototransistor	.66	.50	.375
26278	MOC3010	DIP-6	Bilateral triac driver	.56	.49	.41
95020	MOC3011	DIP-6	Bilateral triac driver	.68	.51	.383
277780	MOC3020	DIP-6	Random phase triac driver	.52	.398	.31
95038	MOC3021	DIP-6	Bilateral triac driver	.69	.59	.443
277819	MOC3023	DIP-6	Random phase triac driver	.46	.419	.353
277835	MOC3041	DIP-6	Zero crossing triac driver	.87	.74	.55
320653	PS2501-1	DIP-4	Single transistor photocoupler	.32	.272	.204
320661	PS2501-2	DIP-8	Single transistor photocoupler	.51	.459	.418
160338	PS2501-4	DIP-16	Photo darlington & transistor/detector	1.09	1.02	.88
320696	PS2502-2	DIP-8	Darlington photocoupler	1.42	1.16	1.05
160362	PS2502-4	DIP-16	Photo darlington & transistor/detector	1.75	1.61	1.39
320725	PS2505-4	DIP-16	High isolation voltage photocoupler	1.99	1.59	1.43
320805	PS2532-4	DIP-16	High collector to high emitter volt. photocoupler	2.35	2.25	2.08
785813	HCPL2630	DIP-8	Dual chan. high spd. 10MB logic gate optocoupler	2.39	1.92	1.68

Infineon Optoisolators

Part No.	Product No.	Pkg.	Description	1	10	100
1628490	ILD2 ♠	DIP-8	Dual channel phototransistor	$.64	$.60	$.56
1628668	ILQ1 ♠	DIP-16	Quad channel phototransistor	2.59	2.09	1.96
1628676	ILQ2 ♠	DIP-16	Quad channel phototransistor	1.79	1.57	1.34
1628828	ILQ74 ♠	DIP-16	Quad channel phototransistor	1.89	1.66	1.43
1696353	IL207AT ♠	SOIC-8	Phototransistor diode	18.45	15.34	14.20

Avago Technologies Optocouplers

Part No.	Product No.	Pkg.	Description	1	10	100
1547876	4N35-000E	DIP-6	Phototransistor optocoupler gen. purp.	$.34	$.20	$.187
1583210	4N46-000E	DIP-6	High gain darlington output opto.	2.39	1.92	1.63
1548107	6N136-000E	DIP-8	Single channel, high-speed opto	1.19	.89	.78
1583261	6N136-020E	DIP-8	Single channel, high-speed opto	1.39	1.19	.95
1548131	6N137-000E	DIP-8	High CMR, hi-spd TTL compatible opto.	1.24	.99	.87
1583287	6N137-300E	DIP-8	High CMR, hi-spd TTL compatible opto.	1.29	1.03	.86
1583308	6N138-000E	DIP-8	Single ch. low input current, high gain opto.	1.15	.87	.80
1583316	6N139-000E	DIP-8	Single ch. low input current, high gain opto.	1.19	.89	.81
1549441	HCPL-060L-000E	SOIC-8	Hi-spd LVTTL compatible 3.3V opto.	1.99	1.61	1.37
1549610	HCPL-063L ♠	SOIC-8	Hi-spd LVTTL compatible 3.3V opto	4.45	3.66	3.45
1549644	HCPL-063N	SOIC-8	HCMOS compat., dual-ch., high-CMR, 10MBd opto. (0.400" W)	6.89	5.67	5.21
1549003	HCNW136	DIP-8	Single channel, high-speed opto (.400" W)	1.89	1.65	1.38
1549020	HCNW137	DIP-8	High CMR, hi-spd TTL compat. opto. (0.400" W)	2.29	1.86	1.62
1549054	HCNW139	DIP-8	Low input curr., high gain opto. (0.400" W)	2.39	1.96	1.85
1549193	HCPL-0201 ♠	SOIC-8	Very high CMR, wide Vcc logic gate opto	2.69	2.20	2.04
1550493	HCPL-314J	SOIC-16	0.6A output current IGBT gate drive opto.	2.69	2.19	2.07
1550549	HCPL-316J-000E	SOIC-16	2.5A gate drv opto. w/ integ. desat. detect. & fault status	5.15	4.06	3.98
1549265	HCPL-0453	SOIC-8	Single channel, high-speed opto	2.05	1.88	1.76
1549311	HCPL-0501 ♠	SOIC-8	Single channel, high speed opto	1.43	1.33	1.25

Avago Technologies Optocouplers (Continued) NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1549329	HCPL-0501-000E	SOIC-8	Single channel, high-speed opto	$1.49	$1.13	$1.00
1549361	HCPL-0531	SOIC-8	Dual channel, high-speed opto	3.09	2.56	2.42
1549396	HCPL-0600 ♠	SOIC-8	High CMR, hi-spd TTL comp. opto	1.75	1.61	1.51
1549417	HCPL-0601 ♠	SOIC-8	Single ch, hi-spd TTL compatible opto	1.75	1.39	1.21
1550995	HCPL-M601	SO-5	High CMR, hi-spd logic gate opto.	2.19	1.86	1.52
1549521	HCPL-0630 ♠	SOIC-8	Dual ch. high CMR, hi-spd TTL compat. opto.	4.05	3.34	3.14
1549530	HCPL-0630-000E	SOIC-8	Dual ch. high CMR, hi-spd TTL compat. opto.	4.15	3.39	3.06
1549732	HCPL-0710	SOIC-8	40ns propagation delay, CMOS opto.	4.25	3.49	3.28
1549741	HCPL-0710-000E	SOIC-8	40ns propagation delay, CMOS opto.	4.25	3.67	3.60
1549839	HCPL-0731	SOIC-8	Dual ch. low input current, high gain opto.	3.69	3.04	2.79
1549935	HCPL-2200 ♠	DIP-8	Sngl ch, low input current logic gate opto	2.49	2.03	1.92
1549978	HCPL-2211	DIP-8	Sngl ch., very high CMR, wide Vcc logic gate opto.	2.69	2.37	2.11
1550012	HCPL-2231 ♠	DIP-8	Dual ch., very high CMR, wide Vcc logic gate opto.	6.29	5.17	4.86
1550039	HCPL-2231-300E	SOIC-8	Dual ch., very high CMR, wide Vcc logic gate opto.	6.35	5.20	4.78
1550047	HCPL-2232	DIP-8	Dual ch., very high CMR, wide Vcc logic gate opto.	8.15	6.69	6.14
1550055	HCPL-2232-300 ♠	DIP-8	Dual ch., very high CMR, wide Vcc logic gate opto.	8.19	6.72	6.32
1550143	HCPL-2530	DIP-8	Dual channel, high-speed opto	1.99	1.66	1.45
1550151	HCPL-2531 ♠	DIP-8	Dual channel, high-speed opto	1.95	1.74	1.52
1550186	HCPL-2601	DIP-8	Sngl ch., high CMR, hi-spd TTL compat. opto.	1.65	1.29	1.16
1550231	HCPL-2611 ♠	DIP-8	Sngl ch., high CMR, hi-spd TTL compat. opto.	1.75	1.62	1.49
1550282	HCPL-2630-000E	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto.	2.79	2.29	2.16
1550311	HCPL-2630-300E	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto.	2.85	2.33	2.19
1550320	HCPL-2631	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto.	2.99	2.47	2.33
1550389	HCPL-2730-000E	DIP-8	Dual ch. low input current, high gain opto.	2.35	1.92	1.81
1550573	HCPL-3700 ♠	DIP-8	AC/DC to logic interface opto.	3.25	2.82	2.69
1550581	HCPL-3700-000E	DIP-8	AC/DC to logic interface opto.	3.15	2.61	2.45
1584167	HCPL-3700-300E	SOIC-8	AC/DC to logic interface opto.	3.19	2.64	2.43
1584175	HCPL-3760-000E	DIP-8	AC/DC to logic interface opto.	4.95	4.05	3.74
1550611	HCPL-4100	DIP-8	Optically coupled 20mA current loop transmitter	5.89	5.41	5.15
1584183	HCPL-4100-000E	DIP-8	Optically coupled 20mA current loop transmitter	5.69	4.75	4.36
1550629	HCPL-4200	DIP-8	Optically coupled 20mA current loop transmitter	5.75	5.40	5.15
1584191	HCPL-4200-000E	DIP-8	Optically coupled 20mA current loop transmitter	5.69	4.74	4.61
1550645	HCPL-4503	DIP-8	Single channel, high-speed opto	1.69	1.49	1.30
1584204	HCPL-4503-000E	DIP-8	Single channel, high-speed opto	1.85	1.46	1.34
1550661	HCPL-4504-000E	DIP-8	Hi-spd, high CMR optocoupler	2.09	1.63	1.45
1550768	HCPL-7601	DIP-8	CMOS/TTL compat. low inp. curr., hi-spd, high CMR opto.	2.65	2.19	2.07
1584212	HCPL-7601-000E	DIP-8	CMOS/TTL compat. low inp. curr., hi-spd, high CMR opto.	2.65	2.20	2.02
1584221	HCPL-7710-000E	DIP-8	40ns propagation delay, CMOS opto.	4.09	3.36	3.26
1584239	HCPL-7710-300E	DIP-8	40ns propagation delay, CMOS opto.	4.09	3.39	3.23
1584247	HCPL-7800-300	SOIC-8	Isolation amplifier optocoupler	8.75	7.16	6.47
1584263	HCPL-7800A-300E	SOIC-8	Isolation amplifier optocoupler	11.09	9.13	8.24
1550881	HCPL-7840-300E	SOIC-8	Isolation amplifier optocoupler	4.95	4.06	3.83
1584280	HCPL-788J-000E	SOIC-16	Isolation amplifier optocoupler	6.75	5.52	4.99

SHARP Optocouplers

Part No.	Product No.	Pkg.	Description	1	5	100
1623891	PC357TJ000F ♠	Mini-4	Gen. purpose photocoupler	$.50	$.42	$.33
1623971	PC817XJ0000F ♠	DIP-4	Gen. purpose photocoupler	.50	.41	.30
1623980	PC844X1J000F ♠	DIP-16	4-ch AC input photocoupler	1.46	1.16	1.16
1623998	PC847XJJ000F ♠	DIP-16	4-ch general purpose photocoupler	1.33	1.11	.89

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♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

CLARE Optocouplers

Part No.	Product No.	Pkg.	Description	1	10	100
1582891	ITC117P *	DIP-16	Intergrated telecom circuit	$4.15	$3.41	$3.12
1583105	LDA100S	DIP-6	Opto. w/ sngl or darlington trans. output	.92	.64	.48
1583113	LOC110	DIP-8	Single linear optocoupler	2.39	1.67	1.27
1583121	LOC110S	SOIC-8	Single linear optocoupler	4.85	3.34	2.47
1583130	LOC111	DIP-8	Single linear optocoupler	2.79	1.96	1.48
1583156	PD2401	DIP-16	AC solid state switch w/ optical coupling	5.75	4.80	4.44
1583172	PS1201	SIP-8	AC pwr switch, dual pwr SCR outputs	6.49	4.50	3.40
1583181	TS117	DIP-8	1-Form-A relay w/ optocoupler	2.25	1.91	1.77
1583199	TS117S	SOIC-8	1-Form-A relay w/ optocoupler	3.39	2.36	1.77
1583201	TS117STR	SOIC-8	1-Form-A relay w/ optocoupler	3.39	2.36	1.79

* 1-Form-A solid state relay, bridge rectifier, darlington transistor & optocoupler

FAIRCHILD Optoisolators/Optocouplers

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
783666	4N35SM ♠	SOIC-6	Gen. purpose phototransistor opto.	✳	$.312	$.29
871199	H11A1M ♠	DIP-6	Gen. purpose phototransistor opto.	✳	.299	.278
785776	H11F1S ♠	SOIC-6	Photo FET opto.	2.55	2.30	1.94
871341	H11L1M	DIP-6	Optoisolator logic output	.75	.68	.60
871367	H11L1SM ♠	SOIC-6	Optoisolator logic output	.82	.68	.541
871261	H11A817C ♠	DIP-4	Phototransistor optocoupler	★	Call	Call
785792	H22B3 ♠	4-pin sltd	Photodarlington optical interrupter switch	.98	.87	.76
785805	HCPL2531S ♠	SOIC-8	Dual ch. high-speed transistor opto.	1.95	1.83	1.73
785813	HCPL2630	DIP-8	Dual ch. high-speed 10mbit/s logic gate opto.	2.39	1.92	1.68
871463	HCPL2631 ♠	DIP-8	Dual ch. high-speed 10mbit/s logic gate opto.	2.49	2.29	2.08
785821	HCPL2631S	SOIC-8	Dual ch. high-speed 10mbit/s logic gate opto.	1.89	1.78	1.34
785830	HCPL2730 ♠	DIP-8	Dual ch. low-inp. curr. high-gain split darl. opto.	1.79	1.65	1.39
873493	MOC207M ♠	SOIC-8	Optocoupler transistor output	.56	.41	.30
698912	MOC3010M	DIP-6	Random-phase triac driver output optoisolator	.62	.47	.313
698947	MOC3031M	DIP-6	Zero-cross Triac driver output optoisolator	.76	.69	.58
698963	MOC3042M	DIP-6	250/400V peak zero-cross opto. triac driver	.86	.76	.61
787237	MOC3062TVM	DIP-6	600V peak zero-cross phototriac driver optocoupler	.79	.73	.62

★ Please call or visit our website for minimum order quantity and pricing

TOSHIBA Optocouplers

Transistor Output

✳ Minimum order 10 pieces

Part No.	Product No.	Pkg.	Curr.Trans Ratio Min. (%)	Curr.Trans Ratio (VCE@IF)	Collector Bkdwn Volt.	Iso. Volt. (V_{RMS})	1	10	100
833310	TLP124BV	SOIC-4	200	5V@1mA	80	3750	$.91	$.68	$.51
833707	TLP281-4(GB,F) ♠	SOIC-16	100	5V@5mA	80	2500	1.69	1.39	1.21
833862	TLP620(F,T) ♠	DIP-4	50	5mA	55	5000	✳	.287	.259
833897	TLP620(GB,F,T) ♠	DIP-4	100	5mA	55	5000	.71	.535	.401
833993	TLP621 ♠	DIP-4	50	5mA	55	5000	★	Call	Call
834021	TLP621(BL,F,T) ♠	DIP-4	200	5mA	55	5000	✳	.268	.242
834056	TLP621(F,T) ♠	DIP-4	50	5V@5mA	55	5000	.51	.383	.297
834072	TLP621(GB,F,T) ♠	DIP-4	100	5mA	55	5000	✳	.249	.224

★ Please call or visit our website for minimum order quantity and pricing

Thyristor Output

Part No.	Product No.	Pkg.	LED Trigger Curr. Max.	Blocking Voltage	Isolation Voltage	1	10	100
833408	TLP161J(U,C,F) ♠	SOIC-4	10mA	600	2500	$.89	$.74	$.59
833731	TLP3062S ♠	DIP-5	10mA	600	5000	★	Call	Call
765185	TLP525G(F)	DIP-4	10mA	400	2500	.89	.74	.56

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LITEON Optocouplers

Photo Transistor Output

Part No.	Product No.	Pkg.	BV_{CEO}	Isolation Volt. (RMS)	Curr. Trans. Ratio (Min.)	1	10	100
878227	LTV-814 †	DIP-4	35	5000	20	$.29	$.247	$.185
878243	LTV-817	DIP-4	35	5000	50	.20	.177	.14
790823	LTV817S-TA	SOIC-4	35	5000	50	.22	.188	.141
878260	LTV-827	DIP-8	35	5000	50	.42	.356	.267
878286	LTV-847	DIP-16	35	5000	50	.83	.73	.55

† AC Input

AVAGO TECHNOLOGIES Hermetically Sealed Optocouplers

Part No.	Product No.	Pkg.	Description	1	10	100
1583324	8102801EC	DIP-16	2-channel, high speed, high CMR logic gate opto.	$63.85	$59.94	$54.85
1583332	8102802PC	DIP-8	2-channel, high speed, high CMR logic gate opto.	63.59	58.64	57.59
1583228	5962-8876901PC	DIP-8	2-channel, low IF, wide VCC, logic gate opto.	102.25	101.67	101.08
1583236	5962-8978501PA	DIP-8	2-channel, low IF, wide VCC, high gain opto.	67.35	66.97	66.58
1583244	5962-8981001PC	DIP-8	1-channel, low IF, wide VCC, high gain opto.	85.89	80.17	75.15
1583252	5962-9085501HPC	DIP-8	1-channel, high speed, high CMR logic gate opto.	51.49	47.48	46.65

OPTEK Optocouplers

Fiber Optic LED

Part No.	Product No.	Fiber Type	Power	V_F @ I_F	1	10	100
1873786	OPF372A ♠	50/125µm fiber	29µW	1.8 @ 100mA	$17.25	$16.00	$15.14
1873778	OPF370A ♠	50/125µm fiber	29µW	1.8 @ 100mA	8.79	8.26	7.73

Photodiode

Part No.	Product No.	Power	Wavelength	1	10	100
1873815	OPF482 ♠	200mW	860nm	$15.35	$14.40	$13.45

OSRAM Photodiodes

Part No.	Product No.	Pkg.	Description	1	10	100
1621132	BPW34 ♠	DIL-2	Photodiode	$.74	$.66	$.58
1621159	BPW34FA ♠	DIL-2	Photodiode w/ Daylight Filter	1.55	1.43	1.34

Slotted Optical Switches

4-pin w/ tab



Part No.	Cross Ref.	Pkg.	Description	1	10	100
114091	H21A1	4-pin w/ tab	Single channel slotted interrupter	$.79	$.74	$.63
320901	H21A3	4-pin w/ tab	Phototransistor optical switch	.88	.74	.58

OPTEK Slotted Optical Switches

Part No.	Product No.	Pkg.	Description	1	10	100
1872661	OPB620 ♠	4-pin	Slotted optical switch	$1.79	$1.40	$1.30
1872863	OPB804 ♠	4-pin	Slotted optical switch	1.79	1.61	1.46
1872919	OPB815WZ ♠	4-wires	Deep gap slotted optical switch w/ 24" wire	4.79	4.29	3.90
1872960	OPB821Z	4-wires	Slotted optical switch w/ 4.5" wires	4.59	3.41	3.18
1872951	OPB821S5Z ♠	4-wires	Slotted optical switch w/ 4.5" wires	5.35	4.76	4.21
1872994	OPB826S ♠	4-pin	Dual channel slotted optical switch	8.05	6.58	6.08
1873073	OPB840W55Z ♠	4-wires	Slotted optical switch w/ wires, side mount	5.35	4.78	4.21
1873102	OPB850A ♠	4-wires	Slotted optical flag switch	3.19	2.88	2.61
1873209	OPB866T55 ♠	4-pin	Slotted optical switch w/ mounting tabs	2.99	2.68	2.36
1873356	OPB891T51Z ♠	4-pin	Slotted optical switch w/ mounting tabs	4.39	3.67	3.39
1873444	OPB930W51Z ♠	5-wires	Photologic® slotted optical switch w/ wires	6.05	4.97	4.59
1873452	OPB941W51Z ♠	5-wires	Photologic® slotted optical switch w/ wires	5.29	4.79	4.54
1873727	OPB993T51Z ♠	5-wires	Photologic® slotted optical switch w/ mtg tabs & wires	5.29	4.36	4.03

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Fiber Optics are available online at www.Jameco.com/Optos

AVAGO TECHNOLOGIES Fiber Optic Transceivers



1553336



1584722

The HFBR-5701 (IEEE802.3 1000BASE-SX/fiber channel)/5710 (IEEE802.3 1000BASE-SX) are optical transceivers that are compliant with the specifications set forth in the IEEE802.3 (100BASE-SX), fiber channel (100-M5-SN-1, 100-M6-SN-1), and the small form factor pluggable (SFP). Its primary application is servicing Gigabit Ethernet and fiber channel links between optical networking equipment. The HBCU-5710R electrical transceiver offers full duplex throughput of 1000 Mb/s by transporting data over shielded and unshielded twisted pair category 5 cable with 5-level PAM (Pulse Amplitude Modulation) signals. The 1000BASE-T module takes signals from both the twisted pair category 5 cable and the SerDes interface.

Part No.	Product No.	Description	1	10	100
1553336	HFBR-53A5VEM	850nm, SC duplex 3.3V, E shield	$150.99	$122.99	$114.79
1548810	HBCU-5710R	P1000Base-T, low voltage (3.3V)	116.75	114.87	113.00
1553352	HFBR-5710LP	For gigabit ethernet	159.99	159.89	149.23
1584722	HFBR-5701LP	For gigabit ethernet & fiber ch.	120.99	114.95	109.20

AVAGO TECHNOLOGIES Miniature Link Package



1584562



1584597



1552966

Designed to provide cost effective, high perfomance fiber optic communication links for information systems and industrial applications with link distances of up to 2.7km. With the HFBR-24X6, the 125MHz analog receiver, data rates of up to 160MBd are attainable. Directly compatible with popular industry standard connectors ST, SMA, SC, and FC. Completely specified with multiple fiber sizes. Applications: LAN, digital cross connect links, central office switch/PBX links, video links, modems and multiplexers, industrial control links.

Transmitters

Part No.	Product No.	Description	1	10	100
1584562	HFBR-1404Z	SMA, Tx high power	$17.95	$15.41	$14.45
1552616	HFBR-1412	ST, Tx standard power	20.29	18.62	17.72
1552624	HFBR-1412T	ST, Tx std power, threaded port	17.95	16.60	15.41
1552632	HFBR-1412TM	ST, Tx std power, threaded/metal port	17.95	16.09	14.45
1584571	HFBR-1412TZ	ST, Tx std power, threaded port	19.95	16.09	15.25
1584589	HFBR-1412Z	ST, Tx std power	20.09	16.09	15.25
1552641	HFBR-1414	ST, Tx high power	17.95	15.42	14.45
1552667	HFBR-1414T	ST, Tx high power, threaded port	17.99	16.60	15.42
1584597	HFBR-1414TZ	ST, Tx high power, threaded port	22.29	16.73	15.45

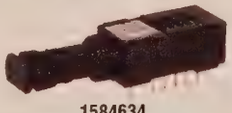
Receivers

Part No.	Product No.	Description	1	10	100
1552878	HFBR-2402	SMA, Rx, 5MBd, TTl output	$17.05	$15.34	$14.81
1584642	HFBR-2402Z	SMA, Rx, 5MBd, TTL output	19.89	16.09	15.25
1552894	HFBR-2412	ST, Rx, 5MBd, TTL output	19.25	16.52	14.45
1552907	HFBR-2412T	ST, Rx, 5MBd, TTL output, threaded port	19.25	16.52	14.81
1552966	HFBR-2416	ST, Rx, 125MHz, analog, threaded port	21.19	19.74	18.51

AVAGO TECHNOLOGIES 1300nm Discrete Optical Components



1552587



1584634

HFBR-1312/2316 series transmitter/receiver provide low cost fiber optic links. Signal rates over 155MBd, link distances over 5km, DIP panel mountable ST and SC connector receptacles, auto insertable and wave solderable, specified with 62.5/125 5m and 50/125 5m fiber. Compatible with HFBR-0400 series. HFBR-1119/2219 series data links are high performance for serial optical data communications specified at 266MBd, designed for 50 or 62.5 μm core multimode optical fiber at 1300nm.

Part No.	Product No.	Data Rate (MBd)	Distance (m)	Connector	1	10	100
1552587	HFBR-1312T	32/160	5000	ST	$67.35	$55.93	$41.95
1552595	HFBR-1312TZ	32/160	5000	ST	67.35	55.94	42.00
1552851	HFBR-2316T	32/160	5000/2000	ST	67.35	55.94	42.39
1552860	HFBR-2316TZ	32/160	5000/2000	ST	69.95	55.94	42.00
1584546	HFBR-1119TZ	266	1500	ST	81.95	68.61	64.68
1584634	HFBR-2119TZ	266	1500	ST	81.95	68.60	64.68

AVAGO TECHNOLOGIES Versatile Link Package

LOWER PRICES



1552798



1553109

The most cost effective family of fiber optics from AVAGO consists of discrete transmitters and receivers based on 660nm technology. Optimized from 1mm plastic fiber and 200μm HCS™ fiber.

Transmitters

Part No.	Product No.	Data Rate MBd	Distance (M) POF	Distance (M) HCS	Op. Temp. °C	Pricing 1	Pricing 10	Pricing 100
1552712	HFBR-1521	5	20	—	-40 – 85	$11.29	$8.47	$7.83
1584600	HFBR-1521Z	5	20	—	-40 – 85	11.35	8.56	7.91
1552721	HFBR-1522	1	45	—	-40 – 85	8.69	7.84	7.58
1584618	HFBR-1522Z	1	45	—	-40 – 85	11.39	8.55	7.91
1552739	HFBR-1523	40kBd	110	—	-40 – 85	10.39	9.07	7.40
1552747	HFBR-1524♠	1	110	—	-40 – 85	8.69	8.14	7.58
1552763	HFBR-1527	32/125	40/30	1000/100	0 – 70	12.05	10.52	8.72
1552771	HFBR-1528	10	100	900	-40 – 85	13.09	9.85	8.51
1552780	HFBR-1531♠	5	20	—	-40 – 85	10.45	8.37	7.58
1552798	HFBR-1532	1	45	—	0 – 70	11.69	10.82	10.10

Receivers

Part No.	Product No.	Data Rate MBd	Distance (M) POF	Distance (M) HCS	Op. Temp. °C	Pricing 1	Pricing 10	Pricing 100
1553029	HFBR-2521	5	20	—	-40 – 85	$8.69	$7.84	$7.58
1584669	HFBR-2521Z	5	20	—	-40 – 85	11.35	8.55	7.91
1553037	HFBR-2522	1	45	—	-40 – 85	10.49	9.16	7.58
1553045	HFBR-2523♠	40kBd	110	—	0 – 70	10.39	9.07	8.61
1553061	HFBR-2524	1	10	—	0 – 70	10.49	9.16	7.58
1553070	HFBR-2526	32/125	40/30	1000/100	0 – 70	17.05	14.19	11.37
1553088	HFBR-2528	10	100	900	-40 – 85	18.85	15.68	13.31
1553096	HFBR-2531♠	5	20	—	-40 – 85	11.35	8.55	7.91
1584677	HFBR-2531Z	5	20	—	0 – 70	11.39	8.56	7.91
1553109	HFBR-2532	1	45	—	0 – 70	11.39	8.56	7.40

AVAGO TECHNOLOGIES 2 & 3 Channel Enclosed Encoders



1584474



1584466

HEDS-5500/5540 are high-performance optical increment encoders. 2/3 channel digital outputs and single 5V supply input are accessed through five 0.025" square pins on 0.1" centers.

✪ Blue Part No. = Limited Quantity Available

- Operating temp.: -40°C to 100°C
- Quick assembly
- TTL compatible

Part No.	Product No.	Outputs	Counts/Rev.	Shaft Dia.	1	10	100
1584474	HEDM-5500$B06✪	2-ch	1000	1/4"	$41.05	$39.67	$38.29
1584491	HEDS-5500$A06	2-ch	500	1/4"	54.29	45.10	40.94
1584503	HEDS-5500$A11	2-ch	500	4mm	59.99	50.09	46.25
1584511	HEDS-5505$A06	2-ch	500	1/4"	54.29	45.10	40.94
1584520	HEDS-5540$A05	3-ch	500	3/16"	57.29	50.09	46.25
1584466	HEDL-6540$B13	3-ch	1000	3/8"	135.55	128.73	122.30

AVAGO TECHNOLOGIES Plastic Optical Fiber Connectors



1553150

Part No.	Product No.	Description	1	10	100
1553141	HFBR-4501	Gray simplex connector/crimp ring	$.74	$.68	$.56
1553150	HFBR-4501Z	Gray simplex connector/crimp ring	.62	.56	.52
1553168	HFBR-4503	Gray simplex latching connector w/ ring	.53	.487	.448
1553176	HFBR-4505	Gray adapter (bulkhead/feedthrough)	1.11	1.02	.84
1584685	HFBR-4505Z	Gray adapter (bulkhead/feedthrough)	.94	.84	.76
1553184	HFBR-4506	Parchment duplex conn. w/crimp ring	1.25	1.15	.95
1584693	HFBR-4506Z	Parchment duplex conn. w/ crimp ring	1.05	.95	.86
1553205	HFBR-4513	Blue simplex latching conn. w/ crimp ring	.54	.487	.448
1553221	HFBR-4516	Gray duplex conn. w/ crimp ring	1.25	1.17	1.10
1553248	HFBR-4531	Black crimpless simplex non-latching conn.	.53	.50	.47
1584706	HFBR-4531Z	Black crimpless simplex non-latching conn.	.54	.48	.44
1584714	HFBR-4593Z	Polishing kit	3.69	3.07	2.96

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend: New Sale Lower$ QtySave

Additional LEDs are available online at www.Jameco.com/Optos


Fig. 1

Fig. 2

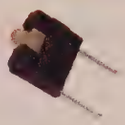

Fig. 3


Fig. 4

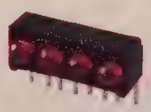
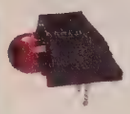

Fig. 5


Fig. 6


Fig. 7


Fig. 8


Fig. 9


Fig. 10

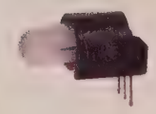

Fig. 11


Fig. 12


Fig. 13


Fig. 14

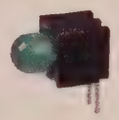
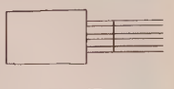

Fig. 15


Fig. 16


Fig. 17

CML LEDs

* Minimum order 5 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing 1	Pricing 5	Pricing 100
Standard LEDs																
1766323	4300F1LC ♻ ♠	1	Red	Solid state, red diffused	T1	0.119/3	0.175	0.95	0.1	1.8	1.8	635	50	*	$.302	$.274
1766366	4301F1/5 ♻ ♠	1	Red/Green	Solid state, bi-color, white diffused	T1	0.119/3	0.175	1	0.1	1.8/2.1	12.6/3/7	660/565	—	.63	.51	.47
1766391	4302F5-5V ♻ ♠*	1	Red	Red diffused	T1	0.119/3	0.175	1.06	0.1	5	8	635	60	.67	.545	.495
1766438	4303F1 ♻ ♠	1	Red	Solid state, red diffused	T1	0.119/3	0.24	1	0.1	2	10	650	90	*	.153	.145
1766340	4300H1LC ♻ ♠	1	Red	Solid state, red diffused	T1 3/4	0.197/5	0.34	1	0.1	1.8	2.3	635	50	*	.306	.29
1766411	4302H1-5V ♻ ♠*	1	Red	Red diffused	T1 3/4	0.197/5	0.347	0.99	0.1	5	8	635	60	.56	.46	.42
1766471	4304H1 ♻	1	Red	Solid state, red diffused	T1 3/4	0.197/5	0.331	0.945	0.1	2	6.3	650	65	*	.142	.131
1766497	4304H5 ♻	1	Green	Solid state, green diffused	T1 3/4	0.197/5	0.331	0.945	0.1	2.1	10	563	75	*	.143	.136
1766542	4305H5 ♻ ♠	1	Red	Non-diffused red	T1 3/4	0.197/5	0.342	0.945	0.1	2.1	68	650	30	*	.182	.173
1766673	4361H1-5 ♻ ♠	2	Red/Green	Tri-color	T1 3/4	0.197/5	0.684	1.89	0.1	2.0/2.1	6.3/10	650/563	60	.56	.457	.419
PCB Indicators																
1767473	5372T3-5VLC ♻ ♠	3	Amber	PCB indicator, RA	T 3/4	—	0.2	0.13	0.1	5	4	565	—	$1.35	$1.16	$1.10
1767191	5325F5 ♻ ♠	4	Amber	PCB indicator, RA	T1	0.119/3	0.118	1	0.15	2.2	10	603	—	.88	.69	.49
1767422	5360F1 ♻ ♠	5	Red	4-wide, PCB indicator, RA	T1	0.119/3	0.27	0.175	0.1	2	10	650	—	1.95	1.58	1.15
1767596	5600F1 ♻	6	Red	PCB indicator, RA	T1	0.119/3	0.251	0.188	0.1	2	10	650	—	.43	.396	.356
1767609	5600F5 ♻	6	Green	PCB indicator, RA	T1	0.119/3	0.251	0.199	0.1	2.2	16	562	—	*	.40	.379
1767617	5600F5LC ♻ ♠	6	Green	PCB indicator, RA	T1	0.119/3	0.251	0.118	0.1	1.8	2.1	565	—	.56	.53	.50
1767633	5602F5-5V ♻ *	6	Green	PCB indicator, RA	T1	0.119/3	0.251	0.118	0.1	5	8	565	—	.73	.59	.43
1767684	5650F1 ♻ ♠	6	Red	PCB indicator, RA	T1	0.119/3	0.29	0.13	0.1	2	10	650	—	*	.371	.268
1767713	5650F5 ♻ ♠	7	Green	PCB indicator, RA	T1	0.119/3	0.29	0.113	0.1	2.2	16	562	—	*	.371	.268
1767781	5680F1;1 ♻ ♠	8	Red	Bi-level, PCB indicator, RA	T1	0.119/3	0.39	0.175	0.1	2	10	650	—	.70	.57	.41
1767799	5680F5;5 ♻ ♠	8	Green	Bi-level, PCB indicator, RA	T1	0.119/3	0.39	0.175	0.1	2.2	16	562	—	.71	.58	.42
1767836	5693F5;5;5-A ♻ ♠	9	Green	Tri-level, PCB indicator, RA	T1	0.119/3	0.6	0.145	0.1	2.2	10	562	—	2.25	1.84	1.33
1766948	5300H1/5 ♻ ♠	10	Red/Green	PCB indicator, bi-color, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2.2	6	650/565	—	.83	.67	.49
1766956	5300H1LC ♻ ♠	10	Red	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	1.8	2.3	635	—	.57	.465	.337
1766981	5300H5LC ♻ ♠	10	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	1.8	2.3	565	—	.57	.465	.337
1767086	5307H5 ♻ ♠	10	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2.1	6.3	563	—	.69	.55	.40
1766999	5300H6 ♻	10	Blue	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	160	430	—	1.75	1.49	1.41
1767001	5300H7LC ♻ ♠	10	Yellow	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	1.9	2.1	585	—	.82	.64	.52
1767027	5302H1-5V ♻ ♠*	10	Red	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	8	635	—	.65	.56	.43
1767035	5302H3-5V ♻ ♠*	10	Amber	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	8	583	—	.76	.60	.48
1767043	5302H5-5V ♻ ♠*	10	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	8	565	—	.73	.59	.43
1767051	5305H1/5 ♻	11	Red/Green	Tri-color, PCB indicator, RA	T1 3/4	0.197/5	0.3	0.13	0.1	2.1	6.3/10	650/565	—	1.79	1.59	1.38
1767060	5306H1 ♻ ♠	12	Red	PCB indicator, RA	T1 3/4	0.197/5	0.43	0.13	0.1	2	6.3	650	—	.61	.49	.40
1767377	5338H7 ♻ ♠	12	Yellow	PCB indicator, RA	T1 3/4	0.197/5	0.38	0.12	0.1	2.1	10	585	—	.82	.64	.52
1767481	5380H1 ♻ ♠	13	Red	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2	6.3	650	—	.52	.424	.307
1767254	5330H7 ♻ ♠	13	Yellow	LED lamp assembly	T1 3/4	0.197/5	0.87	0.15	0.1	2.2	25	585	—	.61	.52	.40
1767300	5332H1 ♻ ♠	14	Red	Vertical LED assembly	T1 3/4	0.197/5	0.19	0.15	0.1	2.1	68	650	—	.69	.55	.40
1767511	5380H5 ♻ ♠	15	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2.2	10	563	—	.52	.424	.307
1767529	5381H1LC ♻ ♠	16	Red	PCB indicator, straight	T1 3/4	0.197/5	0.45	0.13	0.1	1.8	2.3	635	—	.79	.61	.53
1766690	4363D1/5 ♻ ♠	17	Red/Green	Solid state, tri-color	2mm x 5mm	—	0.199	1	0.1	1.9/2.1	3.5/4.0	635/565	50	.82	.78	.74

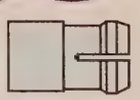
* With integrated resistor

CML Mounting Clip & Panel Mount Lens

1766526: Material: black polypropylene
• Mounting hole: 0.250" diameter for panels up to 0.125" thick

1766614: Material: polycarbonate • Mounting hole: snap into 0.248" Dia.


1766526


1766614

Part No.	Product No.	Description	Minimum order 5 pieces 5	100
1766526	4304MC ♻	Mounting clip	$.137	$.108
1766614	4311 ♻	Red panel mount lens	.287	.26

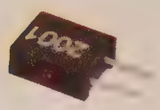
Email us 24/7 at
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with suggestions for products you'd like to see in future catalogs.

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional LEDs are available online at www.Jameco.com/Optos


Fig. 1


Fig. 2

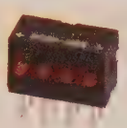

Fig. 3


Fig. 4

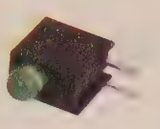
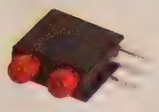

Fig. 5


Fig. 6


Fig. 7

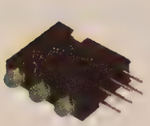

Fig. 8


Fig. 9

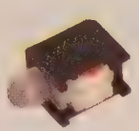
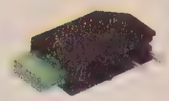

Fig. 10


Fig. 11


Fig. 12


Fig. 13

Dialight LEDs

Part No.	Product No.	Fig.	Emitting Color	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	WaveLength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100
Standard LEDs															
1714339	521-9211F♠	1	Yellow	T1	0.119/3	0.175	1	0.1	2.1	10	585	60	$.50	$.42	$.377
1714355	521-9216F	1	Red	T1	0.119/3	0.175	1	0.1	2	7.4	635	60	.50	.42	.377
1714371	521-9246F	1	Red	T1 ¾	0.197/5	0.346	1	0.1	2.2	7	635	60	.50	.44	.40
1714435	521-9250F	1	Green	T1 ¾	0.197/5	0.347	1	0.1	2.3	4.2	565	60	.50	.44	.40
PCB Indicators															
1716449	555-2001♠	2	Red	—	2mm	0.25	0.145	0.1	1.6	1.2	650	40	$.80	$.74	$.69
1716465	555-2003♠*	2	Red	—	2mm	0.25	0.145	0.1	6.0	1.9	650	40	.89	.84	.78
1716676	555-4301♠	3	Green	—	2mm	0.25	0.135	0.1	2.4	1.0	565	40	3.69	3.39	3.09
1716641	555-4003♠*	3	Green	—	2mm	0.25	0.135	0.1	6.0	1.9	650	40	3.55	3.29	3.02
1716692	555-4303♠*	3	Yellow	—	2mm	0.25	0.135	0.1	4.7	2.5	565	40	3.65	3.37	3.09
1717695	571-0132F♠	4	Yellow/Green	—	2mm	0.339	0.118	0.1	2.1	12.6/8.7	585/565	38	1.32	1.02	1.00
1715411	551-0207♠	5	High efficiency Green	T1	0.119/3	0.28	0.145	0.1	2.1	16	563	45	.55	.50	.47
1715438	551-0207F♠	5	High efficiency Green	T1	0.119/3	0.28	0.145	0.1	2.1	16	563	45	.55	.50	.46
1715446	551-0209♠	5	High-efficiency Green	T1	0.119/3	0.25	0.145	0.1	2.1	16	563	45	.73	.61	.57
1715497	551-0407F	5	High efficiency Red	T1	0.119/3	0.28	0.145	0.1	2	10	650	45	.55	.49	.43
1715526	551-0507♠*	5	Red	T1	0.119/3	0.28	0.142	0.1	10	29	635	60	.84	.77	.71
1715569	551-0607F♠*	5	Green	T1	0.119/3	0.28	0.145	0.1	10	19	565	60	.84	.75	.65
1715606	551-1107♠	5	Red	T1	0.119/3	0.28	0.145	0.1	1.7	1.6	635	60	.72	.67	.62
1715681	551-1307F♠	5	High efficiency Yellow	T1	0.119/3	0.28	0.145	0.1	2.1	6.3	585	45	.72	.64	.56
1715753	551-3007♠	5	Red/Green (bi-color)	T1	0.119/3	0.28	0.145	0.1	2.0/2.1	4.7/10	635/565	50	1.32	1.22	1.12
1715770	551-3009♠	5	Red/Green (bi-color)	T1	0.119/3	0.25	0.145	0.1	2.0/2.1	2.5/3.7	635/565	50	1.22	1.14	1.05
1715809	551-3508♠	6	Red/Green (bi-color)	T1	0.119/3	0.28	0.100	0.1	2/2.1	4/4	630/560	80	1.49	1.39	1.28
1715972	553-0111F♠	7	Red/Red	T1	0.119/3	0.38	0.145	0.1	2.0/2.0	10/10	650	45	1.22	1.08	.95
1716035	553-0122F♠	7	High efficiency Green	T1	0.119/3	0.38	0.145	0.1	2	16	563	45	1.22	1.19	.95
1716078	553-0132F♠	7	Yellow/Green	T1	0.119/3	0.28	0.145	0.1	2.1/2.1	6.3/16	585/563	—	1.22	1.09	.95
1716094	553-0133F♠	7	Yellow/Yellow	T1	0.119/3	0.38	0.145	0.1	2.1	6.3	585	45	1.22	1.09	.95
1716115	553-0212F♠	7	Red/Green	T1	0.119/3	0.38	0.145	0.1	2/2.1	3.6/5.6	650/563	—	1.85	1.54	1.24
1716334	553-0711♠	7	Red/Green	T1	0.119/3	0.38	0.145	0.1	2.0/2.1	4.7/10	635/565	50	1.99	1.85	1.75
1717142	564-0100-222F♠	8	Green	T1	0.119/3	0.60	0.145	0.1	2.1	12.6	—	—	2.15	1.66	1.55
1717441	568-0102-222F♠	9	Green	T1	0.119/3	0.80	0.145	0.1	2.1	4.7	565	60	2.65	2.05	1.95
1717492	568-0701-111F♠	9	Red/Green	T1	0.119/3	0.80	0.145	0.1	2.0/2.1	2.5/3.7	635/565	45	3.95	3.05	2.81
1717855	591-3001-002F♠	10	Red/Green (SMT)	T1	0.119/3	0.198	—	—	2	6.5/8.0	628/570	40/40	2.19	1.97	1.79
1718090	597-3001-202F♠	11	Red (SMT)	SMT	SMT	0.138	—	—	2	10	630	120	.56	.495	.396
1715112	550-2407F♠	12	High efficiency Red	T1 ¾	0.197/5	0.24	0.145	0.1	2.2	2.2	650	—	.60	.49	.46
1715121	550-3007F♠	12	Red/Green (bi-color)	T1 ¾	0.197/5	0.24	0.145	0.1	1.8/2.1	90/40	660/565	60	1.17	1.05	.91
1715286	550-5207F♠	12	Green diffused	T1 ¾	0.197/5	0.24	0.145	0.1	2.2	34	563	50	.45	.364	.359
1717290	566-0206F♠	13	Green	—	2mm x 5mm	0.28	0.110	0.1	2.2	4	565	110	.98	.84	.76

* With integral resistor, 5V

Dialight MicroLED Optopipe, Optical Light Pipe, Bi-Level

- Mounted in arrays spaced at 0.200" apart
- UL94V-0 compliance
- Secures to PCB by press fit
- Wide viewing angle
- ESD protection
- Allows bi-level SMT indicators



Part No.	Product No.	Description	1	10	100
1714195	515-1061F♠	Bi-level optical light pipe	$.52	$.484	$.442

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♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend
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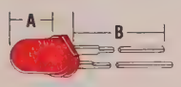


Fig. 1

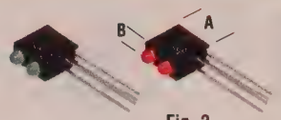


Fig. 2

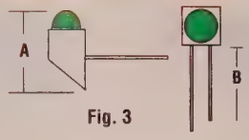


Fig. 3

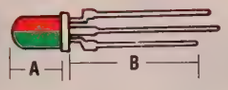


Fig. 4


Fig. 5


Fig. 6

LITEON LEDs

Minimum order 10 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	WaveLength nm	Viewing Angle	Pricing 10	Pricing 100
790145	LTL-1CHY	1	Yellow	Yellow diffused	T1	0.122/3.1	0.205	1.0	0.1	2.1	8.7	588	60	$.10	$.075
790129	LTL-1CHE	1	Hi-eff Red	Red diffused	T1	0.119/3	0.205	1.0	0.1	2.0	12.6	623	60	.072	.065
790250	LTL-4222N	1	Hi-eff Red	Red transparent	T1	0.118/3	0.175	1.0	0.1	2.0	29	635	45	.105	.094
790111	LTL-16KG	1	Green	Green diffused	T1	0.119/3	0.205	1.0	0.1	2.1	12.6	565	—	.088	.078
790137	LTL-1CHG	1	Green	Green diffused	T1	0.119/3	0.205	1.0	0.1	2.1	12.6	569	60	.072	.065
790102	LTL-10253W	1	Yellow	Yellow diffused	T1 3/4	0.187/4.75	0.283	1.0	0.1	2.1	12.6	588	60	.071	.053
790081	LTL-10223W	1	Hi-eff Red	Red diffused	T1 3/4	0.187/4.75	0.283	1.0	0.1	2.0	60	623	60	.07	.056
790090	LTL-10233W	1	Green	Green diffused	T1 3/4	0.187/4.75	0.280	1.0	0.1	2.1	40	569	60	.071	.057
790381	LTL-553-11 ♠	3	Yellow	Yellow diffused Rt. Angle PCB	T1 3/4	0.189/4.8	0.370	0.32	0.1	2.1	12.6	585	60	.144	.14
790399	LTL-709E	6	Hi-eff Red	Red diffused (1.8mm dot point)	1.8mm	0.21/1.8	0.114	0.1	0.1	2.0	12.6	635	38	.136	.122

Standard-Output LEDs

JAMECO EXCLUSIVE

✳ Minimum order 10 pieces

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
34657	LY2040 *	1	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	2.3	15	585	36	✳	$.13	$.12	$.09
206480	LVY2041	1	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	✳	.14	.12	.10
136282	LA44B/2I	2	Orange	Red diffused (dual)	T1	0.119/3	0.38	0.17	0.10	1.7	12	635	50	.75	.66	.54	.35
333171	HLMP-K155-JV	1	Red	Red clear	T1	0.119/3	0.19	1.04	0.10	1.6	3.0	660	45	✳	.079	.078	.057
333851	UT6371-41-M1	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.7	63	660	47	✳	.15	.104	.097
206498	LHR2041	1	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.0	350	660	30	✳	.15	.127	.095
94529	LH2040 *	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	.21	.19	.15	.12
114673	LH2043 *	1	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	12	697	30	.21	.19	.152	.114
94553	LHG2062	1	Red/Green	White diffused bi-color/bi-state[1]	T1	0.119/3	0.18	1.06	0.08	2.3	3 & 15	697/565	36	.30	.244	.195	.156
34606	LSG2040 *	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	✳	.15	.12	.09
333201	LG12340	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	✳	.096	.076	.072
136274	LA44B/2G	2	Green	Green diffused (dual)	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	.64	.544	.457	.343
175679	LVG2041	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	✳	.08	.059	.052
114681	LVG2043 *	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	✳	.078	.064	.039
137411	LVB2040	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	1.59	1.48	1.40	1.15
334457	LSBI2640	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	40	.99	.85	.71	.58
333383	UT63B1-41-M1A2	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.75	.72	.68	.66
34825	LY3330 *	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	0.197/5	0.30	0.82	0.07	2.3	12	585	36	.21	.19	.15	.12
104264	LA93B/Y-1	3	Yellow	Yellow diffused (XC410Y)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.38	.312	.249	.162
334108	UT1831-81-S	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	✳	.118	.077	.074
333622	LHY3330/HO	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	350	595	40	.34	.298	.268	.242
334377	UT1841R-81 ⊕ ✪	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	✳	.098	.064	.061
34711	LEG3362 *	1	Red/Green	White diffused bi-color/bi-state[1]	T1 3/4	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	.31	.268	.184	.176
333973	UT1871-81-M1	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	660	25	✳	.098	.064	.061
94511	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	0.197/5	0.31	0.81	0.08	2.3	3	697	36	✳	.16	.12	.095
104248	LA93B/H-1 *	3	Red	Red diffused (XC410R)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.26	.23	.19	.17
34745	LH3333	1	Red	Water clear (XC554R)	T1 3/4	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	.20	.15	.11	.065
334182	LGH3362	4	Red/Green	White diff. bi-color/solid state[1]	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2.0 & 8.0	697/565	30	.28	.267	.176	.125
34673	LHG3392 *	4	Red/Green	White diff. bi-color/tri-state[1]	T1 3/4	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	.29	.264	.24	.168
34761	LG3330 *	1	Green	Green diffused (XC556G)	T1 3/4	0.197/5	0.31	0.79	0.09	2.3	12	565	36	.20	.15	.14	.10
334086	LG13740	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	20	565	68	✳	.077	.074	.073
104256	LA93B/G-1 *	3	Green	Green diffused (XC410G)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	30	565	46	.26	.22	.20	.17
138691	LVB3330	1	Blue	Blue diffused	T1 3/4	0.197/5	0.34	0.98	0.10	4.8	10	430	36	1.75	1.58	1.26	.94
137613	LSBI3333	1	Blue	Water clear	T1 3/4	0.197/5	0.34	0.98	0.08	3.8	160	430	15	2.05	1.99	1.93	1.68
34690	LFH3360 *	1	Red	Red diff. blinking (XC5410)[2]	T1 3/4	0.197/5	0.30	0.94	0.07	3-12V	2.8	697	N/A	.49	.45	.39	.35
138683	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/4	0.394/10	0.40	1.04	0.10	2.0	100	660	32	.66	.466	.40	.356

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Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
658321	MSL-204DR	5	Red	Water clear	PLCC-2	—	0.11	0.13	—	1.8	50	657	120	$.64	$.534	$.423	$.317
658355	MSL-204MB	5	Blue	Water clear	PLCC-2	—	0.11	0.13	—	3.5	120	468	120	1.19	.98	.78	.59
658347	MSL-204MW	5	White	Water clear	PLCC-2	—	0.08	0.13	—	3.5	400	—	120	1.12	.94	.75	.56

*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 51 [1] Reverse polarity to change color [2] Volt. shown is operating volt. range; no current limiting resistor required. ✳Manufacturer may vary ✪ Blue P/N = Limited Qty Avail.

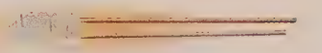
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FAIRCHILD SEMICONDUCTOR® HLMP Series LEDs





Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
253278	HLMP-1301 ♻	Red	Diffused	T1	0.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	60	$.33	$.188	$.099	$.095
253681	HLMP-1790 ♻	Green	Diffused	T1	0.119/3	0.19	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.26	.174	.14	.105
253753	HLMP-3301 ♻	Red	Diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	60	.36	.205	.134	.105
253833	HLMP-4740 ♻	Green	Diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.51	.297	.171	.161

LEDTECH LEDs

- Typical DC forward current 20mA

Ledtech is a QS9000 and ISO-9000 Certified Company

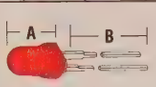


Fig. 1

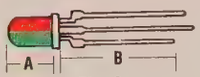
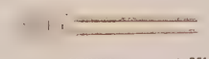


Fig. 2


152805

✳ Minimum order 10 pieces

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
156954	LT0373-41 ♻	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	46	$.24	$.22	$.17	$.14
156946	LT0362-25-D61 ♻	2	Red/Green	White diff. bi-color tri-state	T1	0.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	50	.29	.25	.19	.15
152751	LT0344R-41 ♻	1	Orange Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	36	.21	.19	.16	.12
152785	LT0341R-41 ♻	1	Orange Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	56	.20	.17	.15	.12
156930	LT0321-41-HE ♻	1	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	56	.21	.18	.11	.10
242844	LT1811-81 ♻	1	Red	Red diffused	T1 3/4	0.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	44	✳	.12	.10	.06
1586189	UT1813-83-UJEI	1	Red	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	2.1 @ 20	5500 @ 20	632	25	.39	.35	.29	.19
152805	LT1873-81-UR ⊕	1	Red Ultra Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	12	.21	.187	.161	.12
156962	LT1823-81-HE ♻	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	19	.20	.17	.15	.12
1586197	UT4123-4D-UBC	1	Green	Water clear	T1 3/4	0.197/5	0.32	1.00	0.10	3.0 @ 10	2500 @ 10	500	28	.69	.65	.57	.47
152822	LT1821-81-HE ♻	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	41	.20	.16	.12	.09
152831	LT1831-81-UR ♻	1	Ylw Ultra Bright	Yellow diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	41	.26	.24	.20	.14

Medium-Output LEDs

JAMECO EXCLUSIVE

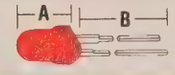
Fig. 1 

Fig. 2 

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
334749	UT63B3-41-UR33 ♻	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	$1.32	$1.27	$.97	$.69
334764	CMD204UWC-JV ♻	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	2.55	2.36	1.91	1.43
206501	LVY3331 ♻	1	Yellow	Yellow transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.2	700	595	20	.25	.205	.166	.134
206519	LHR3331 ♻	1	Red	Red transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.0	660	550	20	.21	.189	.151	.117
152864	BVU-501RD4	1	Red Super Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	600	660	20	.29	.24	.19	.15
333551	LVG13233 ♻	1	Green	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.7	600	565	18	.20	.186	.15	.138
334465	LDBK3331/H0 ♻	1	Blue	Blue transparent	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	900	470	26	1.79	1.46	1.29	1.07
334756	UT5KW3-AA-UAE3-TO1 ⊕	2	White	Water clear	SMD1206	—	0.08	0.14	—	3.2	550	—	120	2.55	2.37	2.15	1.61

High-Output LEDs

- Typical DC forward current 20mA

JAMECO EXCLUSIVE

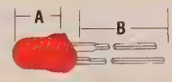
Fig. 1 

Fig. 2 

Fig. 3 

See pages 50-51 for LED Mounting Hardware

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
217525	MCDPW-3004C ♻	1	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	$2.99	$2.85	$2.69	$2.55
333614	LUY3833H ♻	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	.31	.261	.239	.215
334423	UT9C13-86-UDC2 ♻	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.23	.21	.173	.12
333518	LUR13233 ♻	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	.21	.19	.153	.115
333526	LUR3833 ♻	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	.20	.168	.153	.115
197683	BVT-5E1QT4ER ⊕	1	Orange Red	Water clear	T1 3/4	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.69	.59	.49	.39
334473	LDGL3333/H0 ♻	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	3400	502	22	1.95	1.54	1.20	1.10
183214	MCDPG-503PC1 ♻	1	Green	Water clear	T1 3/4	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	2.95	2.65	2.39	2.15
183222	MCDL-513SBC4 ♻	1	Blue	Water clear	T1 3/4	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	3.25	2.95	2.65	2.39
334502	LWK3333 ♻	1	White	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	1.99	1.82	1.45	1.15
334773	UT18W3-86-UAF1-P22 ♻	1	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.6	2900	475	25	2.05	1.96	1.78	1.33
183231	BVU-5C14WK4-B ⊕	1	White	Water clear	T1 3/4	0.197/5	0.30	1.06	0.08	3.5	3000	—	10	2.05	1.87	1.68	1.51
142894	BVU-5E1WK4-B ♻	1	White	Water clear	T1 3/4	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	2.89	2.66	2.23	2.11
320531	MCDL-5013UWC ♻	1	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	1.69	1.31	.96	.87
197641	BVT-529TT8E ⊕	2	Yellow	Yellow transparent	Oval	0.170"/.220"	0.29	1.04	0.08	2.3	3600	592	70	.76	.68	.62	.465
404582	MCDL-1860UWC-15C ♻	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	2.25	2.03	1.82	1.35
664341	MCDL-1870UWC-15C ♻	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	2.75	2.44	2.19	1.62
664405	MCDL-1860UEC-TL ♻	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	625	75	1.39	1.26	1.13	.85
664413	MCDL-1870UEC-TL ♻	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	1.39	1.25	1.00	.75
664392	MCDL-1870UYC-TL ♻	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	590	40	1.39	1.25	1.00	.75
404603	MCDL-1860UGC-TL ♻	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	2.15	1.94	1.75	1.31
664376	MCDL-1870UGC-TL ♻	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	7500	525	30	2.15	1.94	1.55	1.16
404591	MCDL-1860UBC-15C ♻	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	2.15	1.94	1.74	1.25

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend: New Sale Lower$ QtySave

Additional LEDs are available online at www.Jameco.com/Optos

AVAGO TECHNOLOGIES LEDs

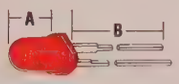


Fig. 1

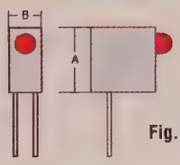


Fig. 2

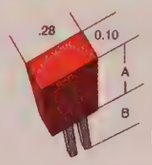


Fig. 3


Fig. 4



Fig. 5


Fig. 6


Fig. 7

✳ Minimum order 10 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelngth nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100
1553871	HLMP-1401-D00A1♻	1	Yellow	Yellow diffused	T1	0.119/3	0.19	0.95	0.10	2.0	3.6	583	60	$.72	$.415	$.303
1553820	HLMP-1301-E0002♻	1	Hi-eff Red	Red diffused	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	.34	.208	.139
1553838	HLMP-1301-E00A1♻	1	Hi-eff Red	Red diffused	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	.82	.483	.319
1554013	HLMP-1601♻	1	Hi-eff Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	5.0	2.1	635	60	.71	.412	.287
1553993	HLMP-1600♻ ♠	1	Red	Tinted diffused	T1	0.119/3	0.19	0.95	0.10	5.0	2.1	635	60	.71	.416	.29
1584950	HLMP-NG07♻	1	Red	Red tinted	T1	0.119/3	0.23	1.00	0.10	1.9	90.2	635	60	.39	.198	.158
1554099	HLMP-1700-B0002♻	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	.24	.22	.19
1554110	HLMP-1700-B00A2♻	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	.49	.413	.337
1555665	HLMP-NL06♻	1	Amber	Water clear	T1	0.119/3	0.34	1.00	0.10	2.0	96.2	592	60	.20	.182	.168
1553926	HLMP-1503-C00A1♻	1	Green	Green diffused	T1	0.119/3	0.19	0.95	0.10	2.1	2.6	565	60	.50	.388	.276
1553934	HLMP-1503-C00A2♻	1	Green	Green diffused	T1	0.119/3	0.19	0.95	0.10	2.1	2.6	565	60	.50	.387	.276
1554056	HLMP-1640♻	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	5.0	1.6	565	60	.71	.412	.287
1554081	HLMP-1641♻	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	12.0	1.6	565	60	.71	.412	.287
1554144	HLMP-1790-A0002♻	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.9	2.3	565	50	.38	.334	.287
1554603	HLMP-3401-E00B2♻	2	Yellow	Yellow diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	5.7	583	60	.72	.396	.305
1554611	HLMP-3416♻	1	Yellow	Yellow non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	50.0	583	35	.35	.202	.131
1554793	HLMP-3862♻	1	Yellow	Yellow tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	9.2	583	60	.59	.341	.236
1554494	HLMP-3301-D0000♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.1	635	60	.34	.178	.138
1554507	HLMP-3301-D0002♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.1	635	60	.34	.178	.138
1554523	HLMP-3301-F0002♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	5.4	635	60	.34	.178	.138
1554574	HLMP-3351♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.25	1.05	0.10	1.9	5.4	635	50	.59	.345	.238
1554697	HLMP-3600♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	5.0	2.1	635	60	.71	.41	.29
1554777	HLMP-3762♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	8.6	635	60	.59	.341	.236
1584757	HLMP-3301-F0001♻	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	5.4	635	60	✳	.158	.119
1554831	HLMP-4000♻ ♠	2	Grn/Hi-eff Red	Diffused, bi-color	T1 3/4	0.197/5	0.36	1.05	0.10	2.2/1.9	4.2/2.1	568/635	65	.68	.392	.287
1584773	HLMP-4000$010♻	2	Grn/Hi-eff Red	Diffused, bi-color	T1 3/4	0.197/5	0.36	1.05	0.10	2.2/1.9	4.2/2.1	568/635	65	.70	.63	.55
1554566	HLMP-3316♻	1	Red	Red tinted	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	60.0	635	35	.35	.202	.131
1554865	HLMP-4700-C00B2♻	1	Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.7	2.3	626	50	.90	.523	.382
1584845	HLMP-C008-U0000♻	1	Red	Red clear/non-diffused	T1 3/4	0.197/5	0.36	1.02	0.10	1.9	6000.0	626	8	.39	.229	.155
1584765	HLMP-3366♻	1	Red	Red tinted/non-diffused	T1 3/4	0.197/5	0.25	1.05	0.10	1.9	13.8	635	45	.59	.345	.238
1555403	HLMP-D105♻	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.8	240.0	637	24	.44	.253	.166
1555471	HLMP-EG15-RU000♻	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	1500.0	635	15	.59	.345	.238
1555489	HLMP-EG24-PS000♻	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	880.0	635	23	.50	.297	.198
1584896	HLMP-ED16-TW000♻	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	2500.0	639	15	.75	.44	.31
1584909	HLMP-ED31-RU000♻	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	1500.0	639	30	.78	.47	.328
1584917	HLMP-EG08-Y2000♻	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	1.9	9300.0	635	6	.68	.398	.274
1555585	HLMP-EL08-VY000♻	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.64	1.00	0.10	2.0	4200.0	592	6	.59	.341	.236
1584925	HLMP-EL25-RU000♻	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.1	1500.0	592	23	.82	.73	.66
1584933	HLMP-EL25-TW000♻	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	2500.0	592	23	.57	.51	.46
1584941	HLMP-EL30-PR400♻	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	880.0	592	30	.74	.376	.297
1555278	HLMP-C515♻	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	2.2	170.0	568	20	.59	.341	.236
1555340	HLMP-CM15-S0000♻	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	1900.0	524	15	1.29	.83	.62
1555358	HLMP-CM15-W0000♻	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	5500.0	524	15	1.59	1.02	.78
1555366	HLMP-CM30-M0000♻	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	520.0	524	30	1.32	.83	.62
1555374	HLMP-CM30-S0000♻	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	1900.0	524	30	1.59	1.02	.78
1554662	HLMP-3519♻	1	Green	Green non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.7	70.0	565	24	.29	.148	.119
1554654	HLMP-3507-D00B2♻	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.1	4.2	565	60	.90	.495	.382
1554671	HLMP-3554♻	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.25	1.05	0.10	2.1	6.7	565	50	.59	.341	.236
1554734	HLMP-3680♻ ♠	3	Green	Tinted/diffused	T1 3/4	0.197/5	0.31	0.90	0.10	5.0	1.6	565	60	✳	.344	.323
1554822	HLMP-3962♻	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.1	10.6	565	60	.59	.345	.238
1554881	HLMP-4740-A00B2♻	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.3	569	50	.90	.49	.38
1555315	HLMP-CB15-P0000♻	1	Blue	Blue non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	880.0	470	15	1.04	.83	.62
1555331	HLMP-CB30-M0000♻	1	Blue	Blue non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	520.0	470	30	1.30	.83	.69
1584853	HLMP-CB11-UVBDD♻	1	Blue	Blue untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	3.2	3.2	470	15	1.18	1.05	.91
1584861	HLMP-CB15-R0000♻	1	Blue	Blue untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	3.8	1500.0	472	15	1.01	.83	.62
1584870	HLMP-CW30-SV000♻	1	White	Untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	3.6	1900.0	—	30	1.11	.86	.66
1555761	HLMP-S201♻	3	Hi-eff Red	Red tinted/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	1.9	3.4	635	110	.35	.202	.131
1555788	HLMP-S301♻ *	3	Yellow	Ylw tinted/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	2.1	2.2	583	110	.35	.202	.131

* With integrated resistor

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional LEDs are available online at www.Jameco.com/Optos

NEW

AVAGO TECHNOLOGIES LEDs (Continued)

See pg 46 for figures ✳ Minimum order 10 pieces

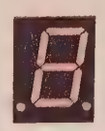
Part No.	Product No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing 1	Pricing 10	Pricing 100
1555796	HLMP-S501	3	Green	Grn tinted/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	2.2	4.2	565	110	$.35	$.202	$.131
1553766	HLMP-0301	3	Red	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	1.9	2.1	635	100	.89	.468	.373
1553774	HLMP-0401	3	Yellow	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.1	3.6	585	100	.89	.469	.373
1553782	HLMP-0504	3	Green	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.2	2.6	565	100	.89	.473	.373
1553791	HLMP-0504-B0000	3	Green	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.2	1.6	565	100	.69	.56	.518
1556369	HSMG-C150	4	Green	Green untinted/diffused	SMD0603	3.2 x 1.6mm†	0.03	0.06	0.07	2.2	15.0	570	170	.24	.139	.089
1556431	HSMH-C190	4	Red	Red untinted/diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	0.10	1.8	17.0	660	170	.26	.147	.095
1557046	HSMS-C190	4	Hi-eff Red	Red untinted/diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	0.05	2.1	10.0	630	170	.26	.147	.095
1556377	HSMG-C170	4	Green	Green untinted/diffused	SMD0805	3.2 x 1.6mm†	0.05	0.08	0.05	2.2	15.0	570	170	.26	.147	.095
1556422	HSMH-C170	4	Red	Red untinted/diffused	SMD0805	2.0 x 1.25mm†	0.05	0.08	0.06	1.8	17.0	660	170	.21	.147	.095
1557089	HSMY-C170 ♠	4	Yellow	Yellow untinted/diffused	SMD0805	1.25 x 2mm	0.05	0.08	0.05	2.1	2.8	589	170	✳	.077	.069
1556385	HSMG-C190	4	Green	Green untinted/diffused	SMD1203	1.6 x 0.8mm†	0.01	0.03	0.06	2.2	15.0	570	170	.26	.147	.095
1556414	HSMH-C150	4	Red	Red untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.12	0.10	1.8	17.0	660	170	.24	.139	.089
1557020	HSMS-C150	4	Hi-eff Red	Red untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.01	0.10	2.1	10.0	630	170	.24	.139	.089
1557071	HSMY-C150	4	Yellow	Yellow untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.01	0.10	2.1	8.0	589	170	.24	.139	.089
1556406	HSMG-C660	4	Green	Green untinted/diffused	SMD1208	3 x 2mm‡	0.01	0.08	0.11	2.2	9.0	570	155	.45	.267	.178
1557054	HSMS-C660	4	Hi-eff Red	Red untinted/non-diffused	SMD1208	3 x 2mm‡	0.01	0.08	0.11	1.8	16.0	650	155	.31	.267	.178
1556300	HSMF-C155	4	Hi-eff Red/Grn	Diffused, bi-color	SMD1210	3.2 x 2.7mm†	0.11	0.13	0.10	2.1/2.2	10/15	630/570	170	.38	.222	.146
1554902	HLMP-6000	5	Red	Red tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	1.6	3.2	655	90	.59	.345	.238
1554945	HLMP-6300	5	Hi-eff Red	Red tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	1.8	10.0	635	90	.50	.297	.198
1554996	HLMP-6400	5	Yellow	Yellow tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.0	9.0	583	90	.50	.297	.198
1555041	HLMP-6500	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	7.0	565	90	.50	.297	.198
1555059	HLMP-6500-F0010	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	7.0	565	90	.71	.416	.29
1555083	HLMP-6505	5	Green	Green tint/diffused.	0.07mm	Dome sub	0.12	0.46	Axial	2.1	40.0	565	28	.50	.297	.198
1555104	HLMP-6505-L0021	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	40.0	565	28	.42	.287	.238
1555219	HLMP-7000	5	Hi-eff Red	Red tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	1.8	1.0	635	90	.59	.341	.236
1555817	HLMT-PH00-P0011	6	Orange	Orange untinted/non-diffused	0.07mm	FT sub	0.10	0.46	Axial	1.9	120.0	621	125	.81	.485	.344
1555690	HLMP-P205-F0011	6	Hi-eff Red	Untinted/non-diffused	0.07mm	FT sub	0.10	0.46	Axial	1.8	8.0	635	125	.48	.43	.39
1584781	HLMP-6720	5	Yellow	Yellow diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.0	2.0	583	90	1.03	.60	.40
1584790	HLMP-6820	5	Green	Green diffused	0.07mm	Dome sub	0.12	0.46	0.06	2.1	1.6	565	90	.88	.51	.37
1584802	HLMP-7019	5	Yellow	Yellow tint/diffused	0.07mm	Dome sub	0.12	0.46	0.06	2.0	0.6	583	90	.59	.341	.235
1555711	HLMP-P505-G0011	6	Green	Green untinted/non-diffused	0.07mm	FT sub	0.10	0.46	0.06	2.1	1.6	565	125	.26	.243	.219
1584968	HLMP-Q106-R0011	5	Red	Untinted/non-diffused	0.07mm	Dome sub	0.46	0.12	0.06	1.9	400.0	654	15	.58	.52	.47
1584976	HLMP-Q156-H0021	5	Red	Untinted/non-diffused	0.07mm	Dome sub	0.46	0.12	0.06	1.6	7.0	654	15	.58	.52	.46
1585055	HSMA-A100-Q00J1	7	Red	Water clear SMT	PLCC-2	—	0.11	0.13	0.06	1.9	100.0	635	120	✳	.098	.089
1585101	HSMC-A100-R00J1	7	Red	Water clear SMT	PLCC-2	—	0.11	0.13	0.06	1.9	140.0	635	120	✳	.142	.12
1556211	HSMC-A100-Q00J1	7	Red	Water clear SMT	PLCC-2	—	0.11	0.13	—	1.9	100.0	635	120	✳	.231	.194
1556342	HSMG-A100-J02J1	7	Yellow	Water clear SMT	PLCC-2	—	0.10	0.46	—	2.2	18.0	565	120	.21	.142	.09

† SMT ‡ SMT, right angle # See pg 46 for figures

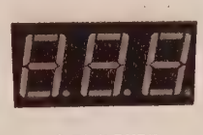
LED Housing

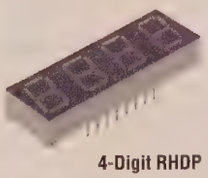
Part No.	Product No.	Description	1	10	100
1554890	HLMP-5029	Right angle housing for T1 ¾ LEDs	$.50	$.287	$.188


Single Digit RHDP

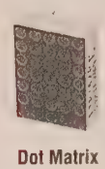

Single Digit RHDP/LHDP


2-Digit RHDP


3-Digit RHDP


4-Digit RHDP


4x7 Hex Character


Dot Matrix


10-Bargraph

AVAGO TECHNOLOGIES 7-Segment LED Displays

NEW LOWER PRICES

The general advantages of LED displays compared to incandescent types include:

• Lower power consumption • Longer lifetime (average of more than 300,000 hours) • Compact size suitable for instrumentation and graphic representations

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	Pricing 10	Pricing 100
1551605	HDSP-7403	0.30	Yellow	CC	10	2.2 @ 20	0.48 @ 5	583	RHDP	$2.99	$2.36	$2.14
1551710	HDSP-A101	0.30	Red	CA	10	1.8 @ 20	0.6 @ 1	645	RHDP	3.15	2.65	2.28
1551728	HDSP-A103	0.30	Red	CC	10	1.8 @ 20	0.6 @ 1	645	RHDP	3.09	2.59	2.28
1584394	HDSP-A113	0.30	Red	CC	10	2.0 @ 20	0.60 @ 1	600	RHDP	3.05	2.51	2.31
1551453	HDSP-5503 ♠	0.56	Hi-eff. Red	CC	10	1.8 @ 20	16 @ 20	645	RHDP	2.49	2.30	2.15
1548019	5082-7610	0.30	Hi-eff. Red	CA	11	2.1 @ 5	0.8 @ 5	645	LHDP	2.95	2.42	2.11
1551613	HDSP-7501	0.30	Hi-eff. Red	CA	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.59	2.16	1.90

* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

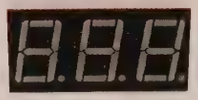
Color Code Legend: New Sale Lower$ QtySave

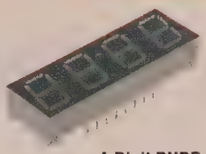
Additional LED Displays are available online at www.Jameco.com/Optos


Single Digit RHDP


Single Digit RHDP/LHDP


2-Digit RHDP


3-Digit RHDP


4-Digit RHDP


4x7 Hex Character


Dot Matrix


10-Bargraph

AVAGO TECHNOLOGIES

7-Segment LED Displays (Continued)

LOWER PRICES Quantity Save

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100
1551621	HDSP-7501-CD000	0.30	Hi-eff. Red	CA	10	2.0 @ 20	0.98 @ 5	635	RHDP	$3.55	$2.23	$2.12
1551664	HDSP-7511	0.30	Hi-eff. Red	CA	10	2.1 @ 20	0.27 @ 2	635	RHDP	3.59	2.49	2.17
1548043	5082-7613	0.30	Hi-eff. Red	CC	10	2.1 @ 5	0.8 @ 5	645	RHDP	2.95	2.42	2.11
1551648	HDSP-7503	0.30	Hi-eff. Red	CC	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.85	2.18	1.90
1584360	HDSP-7504	0.30	Hi-eff. Red	CC	10	2.0 @ 20	0.98 @ 5	635	RHDP	3.05	2.35	2.17
1584378	HDSP-7513	0.30	Hi-eff. Red	CC	10	2.1 @ 20	0.27 @ 2	635	RHDP	3.59	2.50	2.12
1551699	HDSP-7803	0.30	Green	CC	10	2.1 @ 10	3 @ 10	566	RHDP	2.59	2.18	1.90
1584407	HDSP-A903	0.30	Green	CC	10	2.1 @ 20	0.47 @ 4	566	RHDP	3.09	2.28	2.12
1551824	HDSP-F151	0.40	Red	CA	10	1.8 @ 20	15 @ 20	645	RHDP	3.29	2.51	2.31
1551816	HDSP-F113	0.40	Red	CC	10	1.8 @ 20	0.65 @ 1	645	RHDP	3.29	2.51	2.28
1584415	HDSP-F201-DE000	0.40	Hi-eff. Red	CA	10	2.0 @ 20	1.2 @ 5	635	RHDP	3.09	2.35	2.15
1551859	HDSP-F203	0.40	Hi-eff. Red	CC	10	2.0 @ 20	1.2 @ 5	635	RHDP	3.25	2.18	1.90
1584423	HDSP-F401	0.40	Orange	CA	10	2.0 @ 20	1.2 @ 5	600	RHDP	2.69	2.09	1.92
1551883	HDSP-F501	0.40	Green	CA	10	2.1 @ 10	3.5 @ 10	566	RHDP	3.25	2.18	1.90
1584431	HDSP-F501-JK000	0.40	Green	CA	10	2.1 @ 10	3.5 @ 10	566	RHDP	3.05	2.75	2.46
1584440	HDSP-F503-JK000	0.40	Green	CC	10	2.1 @ 10	3.5 @ 10	566	RHDP	3.05	2.35	2.15
1548060	5082-7650	0.43	Hi-eff. Red	CA	10	2.1 @ 20	1.1 @ 5	635	LHDP	2.89	2.42	2.11
1548078	5082-7651	0.43	Hi-eff. Red	CA	11	2.1 @ 20	1.1 @ 5	635	RHDP	2.89	2.42	2.11
1551331	HDSP-4601	0.43	Green	CA	11	2.1 @ 10	4 @ 10	566	RHDP	3.49	2.42	2.11
1551349	HDSP-4603	0.43	Green	CC	11	2.1 @ 10	4 @ 10	566	RHDP	3.49	2.41	2.11
1551939	HDSP-H101	0.56	Red	CA	10	1.8 @ 20	0.70 @ 1	645	RHDP	2.89	2.38	2.07
1551963	HDSP-H151	0.56	Red	CA	10	1.8 @ 20	16 @ 20	645	RHDP	3.59	2.48	2.16
1551971	HDSP-H153	0.56	Red	CC	10	1.8 @ 20	16 @ 20	645	RHDP	3.59	2.48	2.16
1584458	HDSP-H103-DE000	0.56	Red	CC	10	1.8 @ 20	0.70 @ 1	645	RHDP	3.05	2.51	2.31
1551445	HDSP-5501	0.56	Hi-eff. Red	CA	10	2.1 @ 10	2.8 @ 10	635	RHDP	2.39	1.98	1.73
1584335	HDSP-5501-GH000	0.56	Hi-eff. Red	CA	10	2.1 @ 20	2.8 @ 10	635	RHDP	3.39	2.28	1.86
1551488	HDSP-5221	0.56	Hi-eff. Red	2-digit CA	18	2.1 @ 20	2.8 @ 10	635	RHDP	3.65	2.90	2.59
1551509	HDSP-5523	0.56	Hi-eff. Red	2-digit CC	18	2.1 @ 20	2.8 @ 20	635	RHDP	3.69	3.44	3.23
1551525	HDSP-5601	0.56	Green	CA	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.39	1.98	1.73
1584343	HDSP-5601-GH000	0.56	Green	CA	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.79	2.15	1.97
1551568	HDSP-5621	0.56	Green	2-digit CA	18	2.1 @ 10	2.5 @ 10	566	RHDP	3.55	2.89	2.59
1551533	HDSP-5603	0.56	Green	CC	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.49	2.30	2.15
1584351	HDSP-5623	0.56	Green	2-digit CC	18	2.1 @ 10	2.5 @ 10	566	RHDP	4.15	2.90	2.53
1551322	HDSP-3903	0.80	Hi-eff. Red	CC	13	2.6 @ 100	4.8 @ 20	635	RHDP	4.25	3.36	3.00
1584386	HDSP-8603	0.80	Green	CC	13	2.1 @ 10	1.5 @ 10	566	RHDP/LHDP	4.79	3.36	2.93

* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

LITEON

7-Segment LED Displays

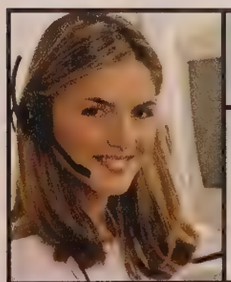
The general advantages of LED displays compared to incandescent types include:

- Lower power consumption
- Longer lifetime (average of more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

See above for photos

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100	1000
790516	LTS-312AG	0.30"	Green	CA	11	2.1 @ 20	2.0 @ 10	569	RHDP/LHDP	$1.25	$1.06	$.96	$.72
790031	LTD-6940HR	0.56"	Hi-eff. Red	2-digit CC	18	2.0 @ 20	2.4 @ 10	623	RHDP	1.07	1.05	1.01	.98

* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point



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RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional LED Displays are available online at www.Jameco.com/Optos

7-Segment LED Displays

JAMECO ValuePro — JAMECO EXCLUSIVE

Soldering: • Soldering bath: not more than 5 seconds @ 260°C • Soldering iron: not more than 3 seconds @ 300°C under 30W

See pg 48 for photos

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100	1000
334984	UA3051-12	0.30"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	$.78	$.69	$.61	$.478
335054	UN4043-13 EWRS ⊕	0.40"	Orange	3-digit CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.25	1.96	1.88	1.37
334933	UC5652-11	0.56"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.19	1.14	.87	.83
335090	UA5651-11	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	1.04	.92	.74
334896	UC5641R-11	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.95	.94	.65	.506
334942	UC5642R-11	0.56"	Hi-eff Red	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.49	1.20	1.02	.82
334976	UA5642R-11	0.56"	Hi-eff Red	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.29	1.16	.93	.70
335101	UA5641R-11	0.56"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.90	.82	.61	.476
334880	UC5641-11	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.83	.76	.525	.506
335177	UA5624-11 EWRS ⊕	0.56"	Green	4-digit CA	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.75	2.48	1.98	1.49
LEDTECH	**Great Prices on Special Buys**												
17187	LSD5051-11	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	$.99	$.88	$.71	$.53
104213	LSD5124-10	0.56"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.48	.43	.387	.344
24715	LDD5121-20	0.56"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.49	1.26	1.07	.90
24723	LDD5111-11	0.56"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24707	LDD5114-20	0.56"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.43	.98	.69
18737	LSD816-11	0.80"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.31	1.27	1.22	1.10
308259	LA8071-11-MIEWRW	0.80"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP	1.75	1.60	1.38	1.06
18753	LSD8151-10	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.22	1.09	.88	.66
97199	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	6.95	6.23	5.63	5.03
97201	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	3.35	3.00	2.85	2.70
202542	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	6.05	5.45	4.90	4.46
105591	LSD40054-20 ‡	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	7.79

* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point ‡ 5 diodes per segment

Alphanumeric LED Displays

AVAGO TECHNOLOGIES — OSRAM — LOWER PRICES

Part No.	Product No.	Manufacturer	Character Height	Color Display	Bus Polarity	Pins/ Leads	Typical mcd @ mA	Wavelength nm	Pricing 1	10	100
1555876	HPDL-1414	Avago	0.11	Red	4-char. alphanumeric	12	1	655	$25.45	$20.89	$18.28
1548844	HCMS-2903	Avago	0.15	Green	5 x 7 alphanumeric	12	114	568	20.89	19.39	17.91
1623488	SLG2016♠	Osram	0.18	Green	5 x 7 alphanumeric	14	0.075	565	22.15	20.66	19.37
1623496	SLR2016♠	Osram	0.18	Red	5 x 7 alphanumeric	14	0.050	660	16.39	15.94	15.50
1551120	HDLG-2416	Avago	0.20	Green	Alphanumeric	18	5.6	568	18.49	15.23	14.94
1584301	HDSP-2111	Avago	0.20	Yellow	8-char. alphanumeric	28	7.5	583	34.59	32.56	29.64
1551251	HDSP-2531	Avago	0.20	Yellow	8-char. alphanumeric	30	7.5	583	32.25	30.15	28.06
1551269	HDSP-2532	Avago	0.20	Hi-eff. Red	8-char. alphanumeric	30	7.5	635	32.25	30.15	28.06
1584327	HDSP-2503	Avago	0.27	Green	8-char. alphanumeric	28	7.5	568	41.95	34.54	32.06
1551189	HDSP-0762	Avago	0.29	Hi-eff. Red	Hex and numeric	8	0.14	635	35.95	34.01	32.07

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

Bargraph & Dot Matrix LED Displays

JAMECO ValuePro — JAMECO EXCLUSIVE — Quantity Save

See pg 48 for photos

Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10	100	1000
334511	UL10000-E-EWAK ⊕	—	Green	Bargraph	20	2.1 @ 20	1.4 @ 10	567	$1.28	$1.04	$.85	$.63
334529	UL10000-HR-RRAK ⊕	—	Red	Bargraph	20	2.1 @ 20	1.6 @ 10	635	1.31	1.05	.86	.69
	Great Prices on Special Buys*											
32951	TIL311 ‡	0.300"	Red	4 x 7 Hex char	11	5.0 @ 5	0.1 @ 5	660	$20.35	$17.22	$14.64	$13.74
218843	CSM57041T-11	0.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	1.95	1.76	1.40	1.05
206560	LTP2157AG	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	1.85	1.65	1.49	1.34
183265	LMD5821ASR-20	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	5.09	4.65	4.04	3.03

* CC-Common Cathode/CR-Cathode Row/AR-Anode Row ‡ Compatible Jameco socket: P/N 37162, pg 109 * Manufacturer may vary

Voice Activated LED Kit

velleman

Uses sound to activate the flashing of 4 bright red LEDs.

• Power consumption: 0.5mA min./12mA max. • 33-pieces

Requires: 8-15VDC power supply (P/N 100095, pg 161) or 9VDC battery (P/N 151095, pg 168)



Part No.	Product No.	Dimensions	1	10
147571	MK103	2.5"L x 1.6"W x 1.4"H	$9.95	$8.95

Flashing LED Kit

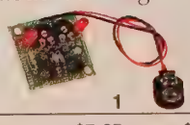
velleman

Activates 2 flashing LEDs for applications such as model building.

• 5.5" wire w/ 9V battery connector

• Consumption: 4mA min. • 23-pieces

Requires: 9VDC battery (P/N 151095, pg 168)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147580	MK102	1.3"L x 1.4"W x 0.6"H	0.1	$7.95	$7.19

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Bargraph & Lightbar LED Displays

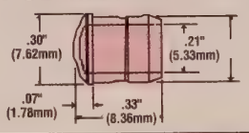
LOWER PRICES

Part No.	Product No.	Illuminated Color	Bus Polarity	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10	100
1551373	HDSP-4830	Hi-eff. Red	Bargraph	20	1.6 @ 20	1.25 @ 20	655	$4.85	$3.76	$3.45
1551402	HDSP-4832	Hi-eff. Red, Yellow, Green	Bargraph	20	2.1 @ 20, 2.2 @ 20, 2.1 @ 10	3.5 @ 10, 1.9 @ 10, 1.9 @ 10	635, 583, 566	6.45	5.99	5.62
1551429	HDSP-4850	Green	Bargraph	20	2.1 @ 10	1.9 @ 10	566	5.75	4.48	4.10
1553686	HLCP-J100	Red	Bargraph	20	1.8 @ 20	1.0 @ 1	645	5.89	5.46	5.12
1554179	HLMP-2300	Hi-eff. Red	Lightbar	4	2.0 @ 20	23 @ 20	635	1.23	1.15	1.08
1554195	HLMP-2350	Hi-eff. Red	Lightbar	8	2.0 @ 20	45 @ 20	635	2.05	1.77	1.47
1554208	HLMP-2350-EF000	Lightbar	Lightbar	8	2.0 @ 20	45 @ 20	635	2.75	1.70	1.61
1554216	HLMP-2400	Yellow	Lightbar	4	2.1 @ 20	20 @ 200	583	1.69	1.11	.87
1554232	HLMP-2450	Yellow	Lightbar	8	2.1 @ 20	38 @ 20	583	2.09	1.95	1.83
1554259	HLMP-2500 ♠	Green	Lightbar	4	2.2 @ 20	25 @ 20	565	.97	.92	.87
1554267	HLMP-2500-FG000	Green	Lightbar	4	2.2 @ 20	25 @ 20	565	1.35	1.26	1.18
1554275	HLMP-2550	Green	Lightbar	8	2.2 @ 20	50 @ 20	565	2.05	1.77	1.47
1554291	HLMP-2620	Hi-eff. Red	Lightbar	16	2.0 @ 20	23 @ 20	635	3.05	2.48	2.16
1554312	HLMP-2635	Hi-eff. Red	Lightbar	8	2.0 @ 20	45 @ 20	635	3.09	2.87	2.69
1554321	HLMP-2655	Hi-eff. Red	Lightbar	16	2.0 @ 20	45 @ 20	635	1.85	1.72	1.61
1554347	HLMP-2685	Hi-eff. Red	Lightbar	16	2.0 @ 20	80 @ 20	635	2.99	2.48	2.16
1554380	HLMP-2755 ♠	Yellow	Lightbar	8	2.1 @ 20	38 @ 20	583	2.19	1.45	1.30
1554398	HLMP-2785	Yellow	Lightbar	16	2.1 @ 20	70 @ 20	583	3.09	2.87	2.69
1554419	HLMP-2800	Green	Lightbar	8	2.2 @ 20	25 @ 20	565	1.85	1.72	1.61
1554427	HLMP-2820	Green	Lightbar	16	2.2 @ 20	25 @ 20	565	3.05	2.48	2.16
1554443	HLMP-2855-FG000	Green	Lightbar	8	2.2 @ 20	50 @ 20	565	2.05	1.91	1.79
1584749	HLMP-2685-EF000	Hi-eff. Red	Lightbar	16	2.0 @ 20	80 @ 20	635	3.99	2.76	2.31

Cliplite® Panel Lens for PCB Mounted LEDs

T1-3/4 size low-profile panel lenses provide 180° viewing angle.

Quantity Save



Part No.	Type	Size	Color	1	10	100	1000
143132	CMC321CTP	T1 ¾	Clear	$.29	$.261	$.209	$.157

LED Mounting Hardware

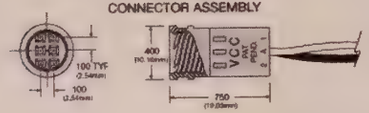
- Color: black
- **Prepackaged: please order in increments of 10**



Part No.	Cross Ref. No.	Description	Mounting Hole Dia.	Panel Thickness	Pricing 10	100	1000
95513	LMH100	T1 snap-in	.185"	Up to .070"	$.088	$.07	$.046
23077	LMH200	T1¾ ring & clip	.257"	Up to .125"	.15	.14	.12

Cable Assembly for 5mm LED Lights

- Enhances LED apparent brightness as well as the viewing angle to 180°
- Tested for temperature cycling, UV, solar shock and vibration
- Sealed version exceeds NEMA 4 for dust, water and ice
- 5mm Bi-Lead LED 24 AWG 2-Wire/Stripped End
- Go to **www.Jameco.com** for 10mm





Pre-Wired Solderless LED holder – Twist Fit

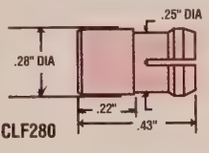
Part No.	Product No.	Length (in.)	1	10	100	500
673820	CNX440-X02-4-1-08	8	$1.85	$1.81	$1.78	$1.73

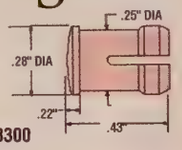
T1 & T1¾ Cliplite® LED Lens Mounts

Standard and low profile, provide 180° viewing angle. Colors: red and clear.

Quantity Save





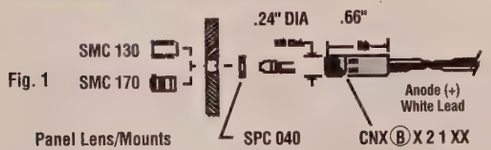


Part No.	Type	Size	Color	1	10	100	1000
417818	SML190RTP	T1	Red	$.26	$.226	$.166	$.125
29612	CLF280RTP	T1 ¾	Red	.29	.257	.188	.141
14277	CLF280CTP	T1 ¾	Clear	.28	.257	.216	.157
124927	CLB300CTP	T1 ¾	Clear	.29	.257	.228	.175

Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.

✪ Blue Part No = Limited Quantity Available





Part No.	Type	Fig.	LED Type	Termination	Length	1	10	100	1000
143087	CNXBE2108 ⊕ ✪	1	T1 (3mm) Bi-lead	2 position connector	8"	$1.99	$1.69	$1.11	$1.00
417439	CNXBX2118	1	T1 (3mm) Bi-lead	Stripped leads	18"	1.89	1.74	1.39	1.05
143037	CNXCE2108	2	T1 ¾ (5mm) Bi-lead	2 position connector	8"	1.29	1.25	1.19	1.15
417463	CNXCE2112	2	T1 ¾ (5mm) Bi-lead	2 position connector	12"	2.19	1.86	1.81	1.75
417501	CNXCX2112	2	T1 ¾ (5mm) Bi-lead	Stripped leads	12"	1.55	1.30	1.04	.78

Design Engineer's LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping. 139 piece hardware kit for T1 and T1 3/4 LEDs. Clear plastic case with dividers.



Part No.	Description	Price
418731	Engineer's hardware kit	$25.09

For more Mounting Hardware, visit www.Jameco.com

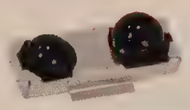
♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Infrared LEDs are available online at www.Jameco.com/Optos

AVAGO TECHNOLOGIES IrDA Compliant Transceiver

- IrDA compliant 115.2kb/s 3V to 5V transceiver
- DC LED current: 165mA max. • Top view • 10-pin
- Link distance: 1.5m • VCC: 2.7V to 5.25V
- 12.2mmL x 4.16mmW x 4.65mmH



LOWER PRICES

Part No.	Product No.	Description	1	10	100
1556086	HSDL-3612-008R	Transceiver	$3.15	$2.90	$2.86

Save Big! Special Values!

New Lower Prices = Orange

LEDs & LED Mounting Hardware Kit

SAVE $21

Includes:

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 196 and labels
- 10 ea. standard-output LEDs (34657, 114673, 114681, 34606, 34825, 34711, 104248, 34690, 34761, 104256, 34673), pg 44 & 11359, on web
- 10 ea. LED lens mount (14277), pg 50
- 100 ea. LEDs (94529), pg 44 & 135597, on web
- 100 ea. LED mounting hardware (95513, 23077), pg 50



Part No.	Description	Wt. (lbs.)	1	10
84996	560 piece kit	5.0	$69.95	$63.25

AVAGO TECHNOLOGIES Infrared Emitters

LOWER PRICES



Part No.	Product No.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	10	100
1556094	HSDL-4220R	Infrared AlGaAs	T1 ¾	0.197/5	0.3	1.23	1.28	0.05	1.5 @ 50mA	875	19	$.58	$.534	$.49
1556107	HSDL-4230R	Infrared AlGaAs	T1 ¾	0.197/5	0.3	1.28	1.28	0.05	1.5 @ 50mA	875	16	.59	.53	.49

LITEON FAIRCHILD SEMICONDUCTOR OSRAM Infrared Light Emitters & Reflective Sensors

Fig. 1

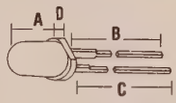


Fig. 2



✳ Minimum order 10 pieces

Part No.	Product No.	Mfr.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	10	100	1000
1623349	SFH484-2 ♠	OS	1	Infrared emitter diode	T1 ¾	0.197/5	0.3	0.5	1.14	1.07	1.5V @ 100mA	880	25	$.50	$.471	$.451	$.338
790057	LTE-302R	LIT	2	Infrared emitter diode, side look	4.4mm x 5.7mm	—	—	—	—	—	1.2V @ 20mA	940	75	.23	.194	.157	.123
787675	QEE113R	FSC	2	Infrared emitter diode, side look	4.4mm x 5.1mm	0.651/1.7	—	—	—	—	1.5V @ 50mA	940	100	✳	.176	.16	.153
787712	QSE113R	FSC	2	Infrared phototransistor	4.4mm x 5.7mm	0.651/1.7	—	—	—	—	—	880	100	✳	.338	.304	.274
874939	QRD114R	FSC	—	Reflective object sensor	6.1mm x 4.7mm	—	—	—	—	—	1.7V @ 50mA	940	100	.93	.73	.62	.59

OS = OSRAM, LIT = LiteOn, FSC = Farichild

OPTEK Infrared Emitters & Reflective Sensors

LOWER PRICES

Fig. 1

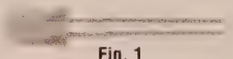


Fig. 2

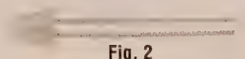


Fig. 3

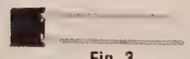


Fig. 4

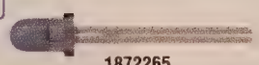


Part No.	Product No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	10	100
1872118	OP265AR♠	1	Infrared emitter diode	T1	.120/3.1	0.25	0.68	—	0.04	1.8 @ 20mA	890	100	$1.30	$1.06	$.82
1871991	OP165AR♠	1	Infrared emitter diode	T1	.120/3.1	0.23	—	0.68	0.04	1.6 @ 20mA	935	100	.92	.84	.76
1872151	OP290AR♠	1	Infrared emitter diode	T1 ¾	.195/5.0	0.30	0.75	1.00	0.04	4.0 @ 1.5A	890	333	.79	.73	.71
1872249	OP298BR♠	2	Infrared emitter diode	TO-46	.183/4.7	0.20	—	0.75	0.03	2.0 @ 1.5A	890	142	1.05	.84	.62
1872126	OP268FAR♠	3	Infrared emitter diode, side look	1.5mm x 4.1mm	—	0.13	0.50	—	—	1.5 @ 20mA	890	100	1.35	1.22	1.09
1872038	OP168FBR♠	3	Infrared emitter diode, end look	1.5mm x 4.1mm	—	0.13	0.50	—	—	1.4 @ 20mA	935	100	1.39	1.25	1.10
1871975	OP140AR♠	3	Infrared emitter diode, side look	1.7mm x 4.6mm	—	0.23	0.50	—	—	1.6 @ 20mA	935	100	.75	.69	.64
1872812	OPB750NR	4	Reflective object sensor	13.7mm x 10.9mm	—	—	—	—	—	1.8 @ 40mA	—	100	5.65	4.86	4.06
1872628	OPB606AR♠	4	Reflective object sensor	4.4mm x 6.1mm	—	—	—	0.18	—	1.7 @ 20mA	935	75	1.45	1.30	1.18
1872767	OPB710FR♠	—	Reflective object sensor	TO-72 header	5.46/.22	—	—	0.50	—	1.5 @ 50mA	935	150	8.89	7.65	6.41

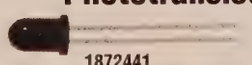
OPTEK Phototransistors & Photodiodes

LOWER PRICES

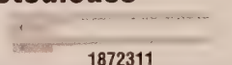
1872265



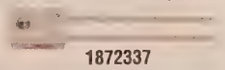
1872441



1872311



1872337



Part No.	Product No.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	mWatts	Pricing 1	10	100
1872265	OP505AR♠	Infrared selected NPN silicon phototransistor	T1	.125/3.2	0.20	0.50	—	0.03	VBRCEO 30 @ 100µA	100	$.63	$.58	$.54
1872441	OP999R♠	PIN silicon photodiode	T1 ¾	.205/5.3	0.31	—	0.75	0.04	1.2VF @ 1mA	100	.83	.79	.74
1872311	OP509BR♠	Sensor phototransistor, end look	1.6mm x 4.2mm	—	—	0.15	0.50	—	VBRCEO 30 @ 100µA	100	1.35	1.20	1.05
1872337	OP550AR♠	NPN silicon phototransistor, side look	1.7mm x 4.6mm	—	—	0.23	0.50	—	VBRCEO 30 @ 100µA	100	.70	.63	.61

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

R RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Infrared LEDs, Lamps & Panel Mount Indicators

Additional Infrared LEDs are available online at www.Jameco.com/Optos

Infrared & Visible Light Emitters & Detectors

- Use for remote control and/or for fiber optics

P/N 133947: Used with infrared lighted cameras, see www.Jameco.com
(peak emission wavelength: 940nm @ 20mA)

Fig. 1

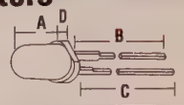
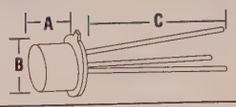


Fig. 2



Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	10	100	1000
112150	LIR2043 ≷	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	$.22	$.18	$.14	$.12
133947	SLI-0308CP ≷	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176	LPT2023 ≷	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526	LVIR3333 ≷	1	Infrared emitter diode (GaAs)	T1 ¾	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112169	LT1893-82-0125 ≷	1	Infrared phototransistor	T1 ¾	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221	BPW77NA	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.99	1.89	1.55	1.21

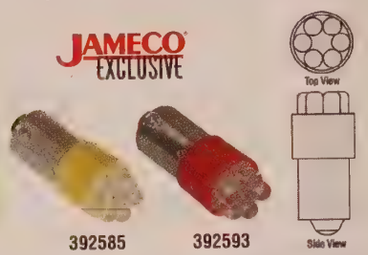
LED Replacement Lamps

- Low current draw – 90% less energy than incandescent • No heat generated • Long life – up to 100k hours • Mounts directly into industry standard socket

Cluster-Based LED T3 - Miniature Bayonet (BA9s) - Non-Polarized

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

JAMECO EXCLUSIVE



Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing 1	10	100
392585	585-5523 ⊕	Yellow	14	20	7000	588	$11.15	$9.94	$9.44
392593	585-5225 ⊕	Red	28	15	6500	630	10.09	8.82	8.37
392622	585-5525 ⊕	Yellow	28	15	6000	588	14.89	12.66	9.50
392632	585-5256 ≷	Red	120VAC	5.5	6500	625	9.89	9.64	7.23
392649	585-5356 ⊕	Green	120VAC	5.5	7000	525	6.25	5.60	5.45

LED Panel-Mount Indicators

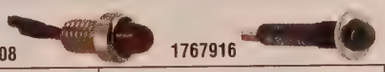
- Easy panel installation • Panel/status/instrument indicators

141111/141129/141137: Chrome housing



Part No.	Cross Ref. No.	LED Size	Color	Dimensions (in.) L	A	B	Mounting Hole	Vf @ If	Pricing 1	10	100	1000
141111	L922SRD ⊕	T1	Red	.56	.34	.25	.23"	2V @ 20mA	$.76	$.68	$.58	$.434
141129	L913RD ⊕	T1	Red	.56	.39	.32	.24"	2V @ 20mA	1.19	.85	.75	.65
141137	L917RD ⊕	T1¾	Red	.70	.55	.47	.31"	2V @ 20mA	.99	.89	.79	.65
637183	UT2U1G-H113-R801-W05	T1¾	Green	.55	5.5	5.5	.24"	12V @ 30mA	1.37	1.25	1.03	.87

CML LED Panel-Mount Indicators



Part No.	Product No.	Color	Dimensions (in.) L	A	B	Mounting Hole	Vf @ If	Pricing 1	10	100	1000
1766796	5100H1	Red	.53	6.0	6.0	.25	2V @ 35mA	$.99	$.80	$.74	$.70
1766809	5100H1/5♠	Red/green	.77	6.0	6.0	.25	2.2V @ 10mA	1.59	1.30	1.21	1.19
1766850	5102H5-5V*	Green	.53	6.0	6.0	.25	5V @ 12mA	1.35	1.17	1.11	1.09
1766876	5110F5 ≷ ♠	Green	.41	6.0	6.0	.158	2.2V @ 20mA	1.19	1.01	.95	.93
1767561	5400A5♠	Green	.68	4.4	4.8	.317	2V @ 35mA	1.65	1.42	1.34	1.31
1767908	6039-004-304R♠	Red	.55	6.0	6.0	.193	1.6V @ 35mA	5.25	4.53	4.35	4.29
1767895	6039-004-304G♠	Green	.55	6.0	6.0	.193	2.2V @ 35mA	5.09	4.38	4.15	4.11
1767916	6091M5-12V♠	Green	1.6	4.4	4.8	.380	12V	5.49	4.80	4.56	4.49

* With built-in resistor

Dialight LED Panel-Mount Indicator



Part No.	Product No.	LED Size	Color	Dimensions (in.) L	A	B	Mounting Hole	Vf @ If	Pricing 1	10	100
1716810	558-0501-007F	T1¾	Green	.47	.275	.27	.158"	2.1V @ 10mA	$2.79	$2.18	$1.82

12V Incandescent Panel Mount Lamps

- **215715/215723/215732:** solder terminals - 0.196" (5mm)

✪ Blue P/N = Limited Qty Available

Fig. 1



Fig. 2



Fig. 3



Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	Wire Length	1	10	100
215774	R9-46B-W100-12V-R ≷	1	Red	1/2" (13mm)	3.9" (100mm)	$2.25	$1.95	$1.46
215782	R9-46B-W100-12V-Y ≷	1	Yellow	1/2" (13mm)	3.9" (100mm)	1.69	1.47	1.20
215791	R9-46B-W100-12V-G ≷	1	Green	1/2" (13mm)	3.9" (100mm)	2.19	1.87	1.40
215749	R9-55B-W130-12V-R ⊕	2	Red✪	9/32" (7mm)	4.9" (125mm)	2.15	1.91	1.62
215758	R9-55B-W130-12V-Y ≷	2	Yellow	9/32" (7mm)	4.9" (125mm)	2.19	1.92	1.44
215766	R9-55B-W130-12V-G ≷	2	Green	9/32" (7mm)	4.9" (125mm)	2.19	1.90	1.43
215715	R9-71B-05-12V-R ≷	3	Red	5/8" (16mm)	—	2.39	2.10	1.58
215723	R9-71B-05-12V-Y ≷	3	Yellow	5/8" (16mm)	—	2.79	2.56	1.92
215732	R9-71B-05-12V-G ≷	3	Green	5/8" (16mm)	—	1.85	1.65	1.24

CML Neon Panel Mount Lamp



- 4.4"/4.8" wire leads
- Color: Red
- 150VAC - 125VAC
- .310" Dia. mounting hole

Part No.	Product No.	1	10	100
1765849	2150A1♠	$2.05	$1.74	$1.56

Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)



215803: Red
215811: Yellow
215830: Green



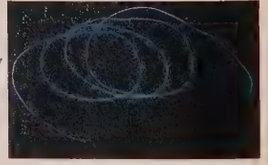
1585485: Green, rectangular

- 6" wire leads • Size: .91"L x .38"W x .77"D

✪ Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	1	10	100
215803	R9-71N-05-120V-R ≷	$2.09	$1.86	$1.58
215811	R9-71N-05-120V-Y ⊕ ✪	1.79	1.59	1.35
215830	R9-71N-05-120V-G ≷	1.79	1.52	1.14
1585485	32501001714	1.95	1.75	1.49

velleman Electroluminescence Wires



Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

- Powered by 2 AA batteries
- Length: 4.5'

Part No.	Product No.	Color	1	10	25
263484	NWRB15	Blue	$23.99	$21.58	$19.42

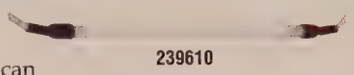
♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Lamps are available online at www.Jameco.com/Optos

velleman Miniature Fluorescent Lamps

Add fluorescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer look and feel. Optional power supply below converts 12VDC input into 180V – 800V output needed by lights.


239610

Part No.	Product No.	Description	1	10	25
239610	FLW1	White light	$9.95	$8.95	$7.95
239636	FLPS1	12VDC PS	9.95	8.95	7.95

CML 12V Incandescent Panel Mount Lamp

Part No.	Product No.	Fig.	Color	Mounting Hole	1	10	100
1765515	1090QC1-12V ♠	—	Red	.505"	$2.79	$2.41	$2.27

CML Incandescent Lamp

Part No.	Product No.	Description	Volt.	MSCP	1	10	100
1768118	6839♠	T1 sub midget flange	28.0	13	$1.69	$1.39	$1.01

CML Neon Lamps

Minimum order 5 pieces

Part No.	Product No.	Description	Voltage	5	100
1766067	2ML♠	Wire terminal .3A	65VAC	$.57	$.51
1770744	C2A♠	Wire terminal 1.9A	95VAC	.29	.261

JAMECO BenchPro 2-150mA LED Tester



Pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of the 13 positions on the tester at current ratings ranging from 2-30mA. Another 13 positions strip ranging from 20mA to 150mA to test other types of LEDs.

Part No.	Description	Size (L x W x H)	Price
355805	LED tester	3.1" x 2.2" x 0.9"	$9.69

Why Test It?



With the huge MTBF of LEDs, you might wonder why we offer an LED tester in the first place.

Why, you ask? After talking to a few friends, I found some like to clip their leads before inserting the LEDs into a board. And when you have mid 30's or 40's eyesight and you've been staring at the computer screen too often, you can't always depend on feeling the detent to determine polarity. Consider the tester above if you need assistance too!

Practical Practices
Money Saving Tips for the Engineer


Fig. 1

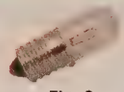

Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6


Fig. 7


Fig. 8

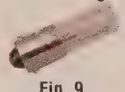

Fig. 9


Fig. 10

Incandescent Lamps

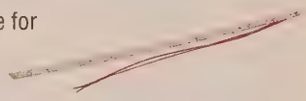
Part No.	Cross Ref.	Fig.	Description	Volts	MSCP	1	5	10	100
209390	14⊕	1	G3 1/2 miniature screw	2.47	.50	$.46	$.414	$.331	$.273
209402	40	2	T3 1/4 miniature screw	6.3	.50	.21	.189	.151	.124
209429	46⊕	2	T3 1/4 miniature screw	6.3	.90	.37	.333	.283	.226
209437	47⊕	3	T3 1/4 miniature bayonet	6.3	.50	.25	.22	.18	.14
209488	86	4	T1 3/4 wedge	6.3	.40	.20	.187	.174	.145
209859	1818⊕	3	T3 1/4 miniature bayonet	24.0	3.3	.81	.78	.75	.56
141073	2182⊕	6	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
141066	2200 ♻	6	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
141057	6833⊕	7	T 3/4 wire terminal	5.0	.05	1.25	1.15	1.07	.80
209998	7219	5	T1 wire terminal	12.0	.15	.40	.334	.288	.219
210008	7328⊕	8	T1 3/4 bi-pin	6.0	.60	.89	.79	.69	.59
210032	7382⊕	8	T1 3/4 bi-pin	14.0	.30	.83	.66	.58	.44
210092	120MB ♻	9	T2 miniature bayonet	120.0	1200	.75	.68	.54	.46

Neon Lamps

Part No.	Cross Ref.	Fig.	Description	Voltage	1	5	10	100
27351	A1A (NE-2)	10	Wire terminal .6mA	65-120	$.42	$.35	$.31	$.26
210315	C2A (NE-2H)⊕	10	Wire terminal	65-120	.29	.234	.207	.185

LED Light Strip Module

- Typical applications: running light or light source for under cabinets, closets, RV's, enclosures
- LED Sections: 6
- Lead length: 14"



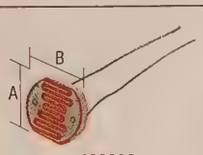
Part No.	Cross Ref.	Color	Input Volt. Typ. (V@mA)	Total Flux Typ. (lm)	Wave Length (nm)	Viewing Angle (Deg.)	Pricing 1	10	25
1586171	UY19209-627	White	12 @ 180	—	—	120	$27.95	$25.95	$22.49

www.Jameco.com

Our enhanced website offers thousands of additional products from major manufacturers. Find products quickly and order them easily.

CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Soldering: 230°C for 3 seconds
- Operating temperature: -30°C to +70°C
- Cadmium Sulfide (CdS)



120299


202438

Part No.	Cross Ref. No.	Rating Vp	Rating mW	Resistance (Ω) Dark	Resistance (Ω) Light	Size (inches) A	Size (inches) B	Lead Spacing (inches)	Lead Length (inches)	Pricing 1	10	100	1000
202366	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	$1.69	$1.52	$1.22	$.99
120310	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.20	1.09	.99
202391	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
202382	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.34	1.21	.99
202420	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	.78	.70	.64	.58
202403	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.49	1.35	1.19	1.09
202411	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.69	.65	.59	.55
202438	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.34	1.07	.96
120301	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.29
120299	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.29
202454	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.69	1.55	1.35	1.15

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: New Sale Lower$ QtySave

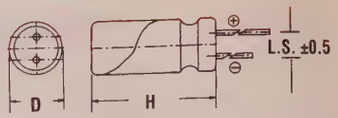
Additional Electrolytic Capacitors are available online at www.Jameco.com/Passives

JAMECO ValuePro JAMECO EXCLUSIVE

Aluminum Radial-Lead Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† **CROSS REFERENCES: Elna:** RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

85°C – General Purpose

Quantity Save

LOWER PRICES

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100	500
609043	UVR2A0R1MDD ≷	0.1	100V	5 x 11 x 2	✳	$.103	$.07	$.048
330465	RA0.47/50 ≷	0.47	50V	5 x 11 x 2	✳	.045	.038	.029
330431	RA1/25 ≷	1	25V	5 x 11 x 2	✳	.045	.039	.03
94161	5R1/50 ≷	1	50V	4 x 5 x 1.5	✳	.12	.08	.05
29833	R1/50 ≷	1	50V	5 x 11 x 2	✳	.063	.053	.042
93731	R2.2/50 ≷	2.2	50V	5 x 11 x 2	✳	.038	.033	.026
31002	R4.7/50 ≷	4.7	50V	5 x 11 x 2	✳	.042	.036	.027
198838	R10J/16 ⊕	10	16V	5 x 11 x 2	✳	.054	.036	.03
94212	5R10/25 ≷	10	25V	4 x 5 x 1.5	✳	.13	.08	.05
94220	5R10/35 ⊕	10	35V	5 x 5 x 2	✳	.083	.057	.056
94370	7R10/35 ≷	10	35V	4 x 7 x 1.5	✳	.11	.094	.071
29893	R10/50 ≷	10	50V	5 x 11 x 2	✳	.067	.055	.045
330482	RA10/63 ≷	10	63V	5 x 11 x 2	✳	.072	.051	.038
330609	RA10/250 ≷	10	250V	10 x 16 x 5	.29	.261	.209	.157
93739	R22/50 ≷	22	50V	5 x 11 x 2	✳	.047	.041	.031
199057	R22J/100 ≷	22	100V	8 x 11.5 x 3.5	✳	.11	.073	.061
93747	R33/50 ≷	33	50V	6.3 x 11 x 2.5	✳	.066	.06	.054
198863	R47J/16 ≷	47	16V	6.3 x 11 x 2.5	✳	.083	.059	.043
198952	R47J/35 ≷	47	35V	5 x 11 x 2	✳	.126	.088	.044
31116	R47/50 ≷	47	50V	6.3 x 11 x 2.5	✳	.067	.056	.05
330562	RA47/160S ≷	47	160V	10 x 20 x 5	.45	.32	.272	.204
330617	RA47/250 ≷	47	250V	13 x 25 x 5	.57	.508	.447	.388
330676	RA47/450 ≷	47	450V	18 x 30 x 7.5	1.75	1.21	.92	.70
207813	R100/10 ≷	100	10V	5 x 11 x 2	✳	.08	.06	.045
330422	RA100/16 ≷	100	16V	5 x 11 x 2	✳	.068	.066	.058
94289	5R100/16 ⊕	100	16V	6.5 x 5 x 2.5	✳	.15	.12	.09
94431	7R100/16 ⊕	100	16V	6 x 7 x 2.5	✳	.15	.12	.09
198970	R100J/35 ≷	100	35V	6.3 x 11 x 2.5	✳	.07	.06	.05
29964	R100/50 ≷	100	50V	8 x 11.5 x 3.5	✳	.078	.067	.056
330529	RA100/100 ≷	100	100V	10 x 17 x 5	.33	.282	.266	.19
330580	RA100/160S ≷	100	160V	16 x 25 x 7.5	.68	.60	.465	.324
330625	RA100/250 ≷	100	250V	16 x 31.5 x 7.5	1.49	1.13	.85	.60
330684	RA100/450 ≷	100	450V	22 x 42.5 x 10.5	3.19	2.46	1.93	1.35
135124	7R220/10 ⊕	220	10V	6 x 7 x 2.5	✳	.136	.10	.074

Note: Above case sizes may have ± tolerances

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100	500
198872	R220J/16 ≷	220	16V	6.3 x 11 x 2.5	$.20	$.11	$.07	$.06
30498	R220/25 ≷	220	25V	8.5 x 11 x 3.5	.20	.18	.144	.108
93772	R220/35 ≷	220	35V	8 x 12 x 3.5	✳	.09	.08	.07
93780	R220/50 ≷	220	50V	10 x 16 x 5	.26	.201	.16	.12
609115	UVR2C221MHD ≷	220	160V	16 x 30 x 7.5	1.32	1.02	.77	.55
93798	R330/25 ≷ ✪	330	25V	8 x 12 x 3.5	.23	.144	.10	.089
198978	R330J/35 ≷	330	35V	10 x 12.5 x 5	.25	.18	.14	.10
330472	RA330/50 ⊕	330	50V	10 x 16 x 5	.23	.21	.155	.112
93811	R470/16 ≷	470	16V	8 x 11.5 x 3.5	.27	.132	.124	.118
31182	R470/25 ⊕	470	25V	8 x 14 x 3.5	.32	.193	.139	.10
93819	R470/35 ≷	470	35V	10 x 16 x 5	.20	.17	.15	.13
93827	R470/50 ≷	470	50V	10 x 20 x 5	.39	.372	.252	.173
158465	R470B63 ⊕	470	63V	13 x 20 x 5	.52	.49	.42	.315
609019	UVR1J471MHD ≷	470	63V	13 x 21 x 5	.62	.56	.448	.336
199102	R470J/100 ≷	470	100V	16 x 25 x 7.5	1.15	.78	.69	.58
609140	UVR2C471MRD ≷	470	160V	22 x 42 x 10	2.55	1.98	1.53	1.14
330456	RA680/25S ⊕	680	25V	8 x 16 x 3.5	.97	.87	.70	.525
330393	RA1000/10 ≷	1000	10V	8 x 14 x 3.5	.27	.243	.194	.146
30017	R1000/16 ≷	1000	16V	10 x 16 x 5	.28	.244	.179	.129
93835	R1000/25 ≷	1000	25V	10 x 20 x 5	.28	.25	.23	.18
93843	R1000/50 ≷	1000	50V	13 x 25 x 5	.58	.51	.455	.38
199111	R1000J/100 ≷	1000	100V	18 x 41 x 7.5	2.29	2.06	1.65	1.24
30535	R2200/25 ≷	2200	25V	13 x 21 x 5	.72	.54	.388	.284
198986	R2200J/35 ≷	2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
608956	UVR1H222MHD ≷	2200	50V	16 x 30 x 7.5	1.59	1.20	.90	.64
198897	R3300J/16 ⊕	3300	16V	13 x 21 x 5	.56	.457	.368	.357
30893	R3300/25 ≷	3300	25V	13 x 29 x 5	.95	.87	.66	.58
198994	R3300J/35 ≷	3300	35V	16 x 30 x 7.5	1.10	.88	.64	.455
198901	R4700J/16 ≷	4700	16V	16 x 25 x 7.5	.95	.73	.56	.40
93851	R4700/25 ⊕	4700	25V	16 x 31.5 x 7.5	1.32	1.13	.90	.64
199005	R4700J/35 ⊕	4700	35V	18 x 35 x 7.5	1.41	1.28	.94	.71
163302	R4700/50 ⊕	4700	50V	22 x 41 x 10	2.25	2.03	1.62	1.45
198934	R6800J/25 ⊕	6800	25V	18 x 35.5 x 7.5	2.15	1.25	.94	.70
608948	UVR1C103MHD ≷	10000	16V	18 x 35 x 7.5	1.59	1.23	.94	.67

Note: Above case sizes may have ± tolerances ✪ Blue Part No. = Limited Quantity Available

Great Prices on Special Buys✳

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm)* D x H x L.S.	Pricing 1	10	100	500
29831	R1/50	1	50V	5 x 11 x 2.0	✳	$.063	$.053	$.042
31000	R4.7/50	4.7	50V	5 x 11 x 2.0	✳	.039	.033	.025
29891	R10/50	10	50V	5 x 11 x 2.0	✳	.06	.05	.04
31114	R47/50	47	50V	6 x 11 x 2.5	✳	.06	.048	.036
93761	R100/25	100	25V	6 x 11 x 2.5	✳	.084	.06	.042
29962	R100/50	100	50V	8 x 11 x 3.5	✳	.084	.072	.06
30496	R220/25	220	25V	8 x 11 x 3.5	✳	.096	.072	.06
93778	R220/50	220	50V	10 x 12 x 5.0	.24	.158	.113	.095
93809	R470/16	470	16V	8 x 11 x 3.5	✳	.099	.095	.071
31181	R470/25	470	25V	10 x 12 x 5.0	.29	.178	.128	.096

* Capacitor dimensions and styles may vary. ✳Manufacturer may vary

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm)* D x H x L.S.	Pricing 1	10	100	500
93817	R470/35	470	35V	10 x 16 x 5.0	$.18	$.156	$.138	$.12
93825	R470/50	470	50V	12 x 20 x 5.0	.32	.287	.277	.208
30015	R1000/16	1000	16V	10 x 16 x 5.0	.24	.192	.143	.107
93833	R1000/25	1000	25V	10 x 20 x 5.0	.41	.32	.29	.16
286045	Q399L✪	1000	35V	12 x 20 x 5	.35	.31	.248	.186
93841	R1000/50 ⊕	1000	50V	6.5 x 11.3 x 2.2	.53	.469	.414	.311
30533	R2200/25	2200	25V	12 x 25 x 5.0	.66	.50	.39	.35
30891	R3300/25	3300	25V	16 x 25 x 7.5	.86	.63	.468	.435
93850	R4700/25	4700	25V	16 x 31 x 7.5	1.19	1.07	.96	.72
163301	R4700/50	4700	50V	22 x 42 x 10.0	2.09	1.87	1.49	1.12

* Capacitor dimensions and styles may vary. ✪ Blue Part No. = Limited Quantity Available

We're Listening to Your Requests

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

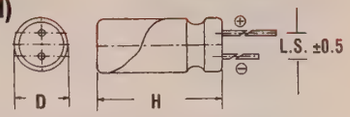
Additional Electrolytic Capacitors are available online at www.Jameco.com/Passives

JAMECO ValuePro

Aluminum Radial-Lead Electrolytic Capacitors (±20%) (Continued)



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† **CROSS REFERENCES: Elna:** RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

JAMECO EXCLUSIVE — 105°C – HT Type General Purpose — Quantity Save

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100	500
609545	UVZ1H0R1MDD	0.1	50V	5 x 11 x 2	$.22	$.133	$.092	$.059
330772	RB1/50	1	50V	5 x 11 x 2	✳	.068	.056	.042
158491	R1B100	1	100V	5 x 11 x 2	✳	.102	.081	.053
609959	UVZ2E010MED	1	250V	8 x 11 x 3.5	.24	.17	.116	.077
609561	UVZ1H2R2MDD	2.2	50V	5 x 11.5 x 2	.21	.125	.085	.055
609887	UVZ2C4R7MED	4.7	160V	6.4 x 11.4 x 2.4	.27	.194	.141	.106
330692	RB10/16	10	16V	5 x 11 x 2	✳	.047	.041	.035
607849	UPW1H100MDD	10	50V	5 x 11 x 2	.24	.164	.117	.088
330799	RB10/50	10	50V	5 x 11 x 2	✳	.068	.056	.044
609641	UVZ1J100MDD	10	63V	5 x 11 x 2	.20	.133	.10	.067
158530	R10B100	10	100V	6.3 x 11 x 2.5	✳	.085	.075	.065
330844	RB10/160	10	160V	8 x 11 x 3.5	.25	.205	.174	.131
610036	UVZ2W100MHD	10	450V	13 x 21 x 5	.84	.65	.493	.349
158327	R22B35	22	35V	5 x 11 x 2	✳	.07	.05	.03
609828	UVZ2C220MPD	22	160V	10 x 15 x 5	.37	.262	.191	.136
609975	UVZ2E220MHD	22	250V	13 x 20 x 5	.55	.495	.396	.297
609502	UVZ1C470MDD	47	16V	5 x 11 x 2	✳	.129	.109	.089
607970	UPW1H470MED	47	50V	6.3 x 11 x 2.5	.29	.215	.15	.117
330820	RB47/50	47	50V	6.3 x 11 x 2.5	✳	.10	.074	.051
608139	UPW1J470MPD	47	63V	8 x 11.5 x 3.5	.31	.23	.167	.125
609879	UVZ2C470MHD	47	160V	13 x 21 x 5	.63	.457	.332	.241
610010	UVZ2E470MHD	47	250V	13 x 25 x 5	.86	.77	.62	.465
606686	UHE1E101MED	100	25V	6.3 x 11 x 2.5	✳	.171	.125	.099
330740	RB100/25	100	25V	6.3 x 11 x 2.5	✳	.067	.057	.048
330748	RB100/35	100	35V	10 x 15 x 5	✳	.142	.121	.091
158394	R100B50	100	50V	8 x 11.5 x 3.5	✳	.108	.084	.066
608032	UPW1J101MPD6	100	63V	8 x 14 x 3.5	.34	.241	.174	.126
609748	UVZ2A101MPD	100	100V	10 x 20 x 5	.50	.373	.274	.204
609916	UVZ2D101MHD	100	200V	16 x 25 x 7.5	1.55	1.16	.87	.61
609967	UVZ2E101MHD	100	250V	16 x 31 x 7.5	1.55	1.21	.94	.70
311758	R220B10	220	10V	6.3 x 11 x 2.5	.45	.39	.36	.33
158263	R220B25	220	25V	8 x 11 x 3.5	✳	.144	.108	.084
606820	UHE1H221MPD	220	50V	10 x 16 x 5	.31	.223	.162	.116
158406	R220B50 ⊕	220	50V	10 x 17 x 5	.407	.288	.211	.167
609764	UVZ2A221MHD	220	100V	13 x 26 x 5	1.04	.78	.57	.41
609721	UVZ1V331MPD	330	35V	10 x 16 x 5	.35	.315	.252	.189
609385	UVZ0J471MED	470	6.3V	6 x 11 x 2.5	.31	.279	.224	.168
158203	R470B16 ⊕	470	16V	8 x 11 x 3.5	.32	.19	.13	.095
606678	UHE1C471MPD	470	16V	8 x 14 x 3.5	.24	.202	.148	.102

Note: Above case sizes may have ± tolerances

✳ Prepackaged: please order in increments of 10

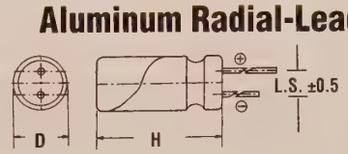
Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100	500
158289	R470B25 ⊕	470	25V	10 x 16 x 5	$.21	$.185	$.148	$.111
606740	UHE1E471MPD6	470	25V	10 x 16 x 5	.43	.305	.218	.164
607988	UPW1H471MHD	470	50V	13 x 20 x 5	.82	.74	.59	.443
606854	UHE1H471MPD	470	50V	13 x 20 x 5	.64	.59	.495	.371
608016	UPW1H561MHD	560	50V	13 x 25 x 5	1.04	.77	.58	.453
606871	UHE1H681MHD	680	50V	13 x 28 x 5	.61	.446	.332	.239
607179	UHE2A681MHD ✪	680	100V	18 x 33 x 7.5	1.05	.82	.61	.58
606432	UHE0J102MPD	1000	6.3V	8 x 14 x 3.5	✳	.178	.158	.119
609465	UVZ1C102MPD	1000	16V	10 x 20 x 5	.63	.396	.347	.248
606601	UHE1C102MPD	1000	16V	10 x 20 x 5	.49	.344	.245	.184
330722	RB1000/16	1000	16V	10 x 20 x 5	.23	.216	.19	.171
158298	R1000B25	1000	25V	10 x 17 x 5	.35	.29	.25	.19
607718	UPW1E102MHD	1000	25V	13 x 20 x 5	.73	.533	.39	.293
158378	R1000B35	1000	35V	13 x 21 x 5	.49	.44	.35	.26
609553	UVZ1H102MHD	1000	50V	13 x 25 x 5	.84	.62	.449	.324
607865	UPW1H102MHD	1000	50V	16 x 25 x 7.5	1.20	.91	.70	.59
606627	UHE1C122MPD	1200	16V	10 x 24 x 5	.45	.316	.225	.169
607232	UPW0J152MPD	1500	6.3V	10 x 20 x 5	.48	.365	.281	.23
607398	UPW1A152MPD6	1500	10V	10 x 20 x 5	.55	.419	.304	.235
607873	UPW1H152MHD	1500	50V	16 x 30 x 7.5	1.27	.98	.74	.53
606467	UHE0J182MHD	1800	6.3V	10 x 20 x 5	.33	.241	.175	.126
607751	UPW1E182MHD	1800	25V	13 x 25 x 5	1.25	1.13	.90	.68
609342	UVZ0J222MPD	2200	6.3V	10 x 20 x 5	.46	.32	.231	.167
607427	UPW1A222MHD	2200	10V	13 x 20 x 5	.60	.45	.33	.238
606563	UHE1A222MPD	2200	10V	10 x 24 x 5	.61	.56	.48	.36
609490	UVZ1C222MHD	2200	16V	13 x 20 x 5	.82	.62	.476	.34
606643	UHE1C222MHD	2200	16V	13 x 25 x 5	.59	.44	.324	.234
609705	UVZ1V222MHD	2200	35V	16 x 26 x 7.5	1.38	1.05	.81	.57
608235	UPW1V222MHD6	2200	35V	18 x 26 x 7.5	1.42	1.10	.85	.64
607064	UHE1V222MHD	2200	35V	16 x 26 x 7.5	1.12	1.01	.78	.68
606838	UHE1H222MHD6	2200	50V	18 x 30 x 7.5	1.55	1.20	1.05	.79
158432	R2200B50	2200	50V	16 x 31 x 7.5	1.19	1.04	.78	.64
607443	UPW1A332MHD6	3300	10V	13 x 20 x 7.5	.64	.465	.342	.257
608278	UPW1V332MHD	3300	35V	18 x 33 x 7.5	1.79	1.40	1.08	.81
609588	UVZ1H332MHD	3300	50V	18 x 36 x 7.5	1.65	1.26	1.00	.72
607814	UPW1E472MHD	4700	25V	18 x 35 x 7.5	1.55	1.40	1.12	.84
609457	UVZ1A682MHD	6800	10V	16 x 25 x 7.5	1.55	1.18	.91	.65
607697	UPW1C822MHD	8200	16V	16 x 33 x 7.5	1.89	1.49	1.15	.86
609473	UVZ1C103MHD	10000	16V	18 x 41 x 7.5	1.95	1.49	1.15	.86

Note: Above case sizes may have ± tolerances ✪ Blue Part No. = Limited Quantity Available

Panasonic®

Aluminum Radial-Lead Electrolytic Capacitors





ECA-M Series

- Miniaturized size version for general purpose use
- Operating temperature range: -40°C to 85°C
- Life: 2,000 hours @ 85°C

✳ Minimum order 5 pieces

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing 1	5	100
856888	ECA-1CM101 ♠	16	100μF	5 x 11 x 2	✳	$.063	$.057
919050	ECA-1EM471 ♠	25	470μF	10 x 12.5 x 5	✳	.223	.161
919025	ECA-1EM102 ♠	25	1000μF	10 x 20 x 5	✳	.34	.252

ECO-TS Series

- TSHB compact size
- Tolerance: ±20%
- Operating temp. range: -40°C to 105°C
- Long life & high ripple current

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing 1	10	100
860140	ECO-S2WB471EA ♠	450	470μF	35 x 50	$12.29	$10.84	$10.30

NHG Series

- Compact size
- Life: 1,000 to 2,000 hours @ 105°C
- Operating temp. range: -55°C to 105°C

✳ Minimum order 5 pieces

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing 1	5	100
918997	ECA-1EHG471 ♠	25	470μF	10 x 12.5 x 5	✳	$.285	$.211

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♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: *New Sale Lower$ QtySave*

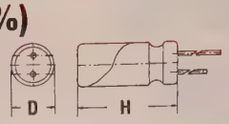
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Additional Electrolytic Capacitors are available online at www.Jameco.com/Passives

Aluminum Radial-Lead Non-Polarized Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† **CROSS REFERENCES: Elna:** RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

JAMECO EXCLUSIVE

85°C – General Purpose

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100	500
330941	RN1/50 ♻	1	50V	5 x 11 x 2.0	$.21	$.159	$.085	$.075
330915	RN10/25 ⊕	10	25V	5 x 11.5 x 1.5	.28	.243	.194	.146

85°C – Non-Polarized High-Frequency (Horizontal Deflection)

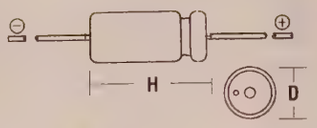
Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100	500
331151	RN4.7/25S ♻	4.7	25V	5 x 11 x 1.5	$.37	$.333	$.266	$.20

Aluminum Axial-Lead Electrolytic Capacitors (±20%)

General purpose 85°C maximum



Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater



†**CROSS REFERENCES: Elna:** RE2; **IC:** RAR; **Marcon:** SEM; **Nichicon:** LB/VX; **Rubycon:** TWSS; **Sprague:** 501D/513D; **UCC:** SME; **Panasonic:** SU

Quantity Save LOWER PRICES

✳ **Prepackaged: please order in increments of 10**

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H	Pricing 1	10	100	500
10868	A1/50 ♻	1	50V	5 x 12	$.23	$.15	$.104	$.078
10883	A10/50 ⊕	10	50V	6 x 12	.21	.176	.128	.094
331425	AB10/450 ♻	10	450V	13 x 25	1.08	.99	.89	.67
199268	A22J/25 ♻	22	25V	6 x 12.5	.24	.195	.147	.108
331433	AB22/450 ♻	22	450V	16 x 26.5	1.75	1.58	1.26	.95
135321	A47/25 ♻	47	25V	6 x 12	.21	.187	.158	.12
199188	A100J/16 ♻	100	16V	6 x 12.5	.39	.297	.266	.239
199284	A100J/25 ♻	100	25V	8 x 15	.25	.20	.18	.15
10913	A100/50 ♻	100	50V	8 x 13	.26	.245	.221	.199
331380	AB100/100 ♻	100	100V	10 x 20.5	.85	.77	.62	.465
331409	AB100/160 ♻	100	160V	16 x 26.5	2.09	1.88	1.50	1.13
331417	AB100/250 ♻	100	250V	16 x 31	2.45	2.21	1.77	1.33
331299	AB150/50 ⊕	150	50V	10 x 17	.96	.86	.69	.518
199292	A220J/25 ♻	220	25V	8 x 16	.29	.22	.188	.126
11019	A220/50 ♻	220	50V	10 x 17	.35	.29	.25	.192
199217	A470J/16 ♻	470	16V	8 x 17	.35	.286	.257	.193

Note: Above case sizes may have ± tolerances

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H	Pricing 1	10	100	500
199313	A470J/25 ♻	470	25V	10 x 17	$.45	$.39	$.29	$.25
199381	A470J/35 ♻	470	35V	10 x 21	.50	.404	.371	.278
11123	A470/50 ♻	470	50V	13 x 22	.59	.49	.42	.34
93633	A1000/16 ♻	1000	16V	10 x 21	.72	.62	.51	.383
10956	A1000/25 ♻	1000	25V	10 x 20	.66	.54	.49	.38
93651	A1000/35 ♻	1000	35V	13 x 22	.94	.83	.66	.545
199322	A2200J/25 ♻	2200	25V	16 x 26	1.39	1.23	1.15	1.09
93658	A2200/35 ♻	2200	35V	16 x 30	1.25	1.10	.99	.85
199478	A2200J/50 ⊕	2200	50V	18 x 33	2.15	1.93	1.54	1.15
93666	A3300/25 ⊕	3300	25V	16 x 30	1.25	1.14	1.00	.75
199398	A3300J/35 ⊕	3300	35V	18 x 37	3.39	2.93	2.29	1.72
199487	A3300J/50 ♻	3300	50V	22 x 43	2.19	1.96	1.77	1.59
199232	A4700J/16 ⊕	4700	16V	16 x 26.5	1.45	1.30	1.04	.78
93675	A4700/25 ♻	4700	25V	16 x 30	1.69	1.49	1.29	.99
199402	A4700J/35 ♻	4700	35V	18 x 40	2.79	2.51	2.01	1.51
158811	A4700A50 ♻	4700	50V	22 x 43	2.79	2.29	2.09	1.79
93683	A10000/16 ♻	10000	16V	16 x 40	2.99	2.75	2.19	1.59

Note: Above case sizes may have ± tolerances

Great Prices on Special Buys✳

✳ **Prepackaged: please order in increments of 10**

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm)* D x H	Pricing 1	10	100	500
10866	A1/50	1	50V	5 x 13	$.20	$.138	$.096	$.072
11076	A4.7/50	4.7	50V	6 x 13	.20	.162	.13	.088
93577	A10/35	10	35V	6 x 13	✳	.105	.10	.09
10882	A10/50	10	50V	6 x 12	.193	.162	.118	.086
135319	A47/25	47	25V	8 x 16	.19	.172	.145	.109
11105	A47/50 ⊕	47	50V	8 x 16	.20	.15	.137	.103
93551	A100/35	100	35V	8 x 16	.24	.192	.173	.144

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm)* D x H	Pricing 1	10	100	500
10911	A100/50	100	50V	8 x 20	$.24	$.225	$.203	$.183
10954	A1000/25	1000	25V	13 x 31	.52	.468	.374	.281
93649	A1000/35	1000	35V	13 x 26	.48	.437	.431	.388
147256	A1000/50	1000	50V	16 x 31	.72	.62	.491	.41
11033	A2200/16	2200	16V	16 x 40	.87	.78	.72	.65
93673	A4700/25	4700	25V	22 x 39	1.55	1.37	1.19	.89
93681	A10000/16	10000	16V	22 x 51	2.49	2.26	2.04	1.53

*Capacitor dimensions & styles may vary ✳Manufacturer may vary

Aluminum Axial-Lead Non-Polarized Electrolytic Capacitor

JAMECO EXCLUSIVE

LOWER PRICES

85°C – General purpose

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H	Pricing 1	10	100	500
331564	AN10/50 ♻	10	50V	6 x 16	$.49	$.44	$.39	$.35

Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

Jameco ValuePro™ Products: A Great Way to Save!



Jameco's ValuePro line of passive, electromechanical and interconnect products are high-quality electronic components and guaranteed to be at the lowest prices you'll find. In fact, if you find a lower print-advertised price, we'll beat it by another 10%, right down to our cost. No more high-priced brand markup… no more costly layers of distribution… no more restrictive franchise agreements that hold minimum prices high. Instead, Jameco cuts out the costly markups and layers of distribution and sells its products direct to you, so you can put the savings back in your wallet!

Practical Practices
Money Saving Tips for the Engineer

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Tantalum Capacitors are available online at www.Jameco.com/Passives

Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)



- Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing
- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C • Can-Top safety vent

JAMECO EXCLUSIVE — Snap-Ins!

† **CROSS REFERENCES: Aero M**: LP/LPR; **Elna**: LP3/LP4; **Illinois Capacitor**: LBA/LPR; **Mallory**: LPX; **Marcon**: CEAWF; **Nichicon**: LLK/LLQ; **Panasonic**: TS-UP/TS-U; **Phillips** (MEPCO): 3487/3489; **Rubycon**: RSP; **Sprague**: 80D/82D; **United Chemicon**: SMG(VN)/SMH(VN)

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100
203246	SN330/400 ⊕	330	400V	30 x 46 x 9	$4.99	$3.61	$2.30
203263	SN470/400/5	470	450V	35 x 49 x 9	8.79	7.53	5.65
331900	SNB6800/50 ⊕ ✪	6800	50V	25.2 x 42.4 x 9	2.69	2.40	1.82
331759	SNA8200/80 ♻	8200	80V	35 x 51 x 9	6.45	5.63	4.83

✪ Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100
157738	SN10000/50♻	10000	50V	35 x 40 x 12	$4.95	$4.10	$3.99
331716	SNA15000/25♻	15000	25V	25 x 41 x 9	2.65	2.35	1.78
Great Prices on Special Buys*							
203254	SN470/400/4	470	400V	35 x 41	$6.35	$5.40	$4.05

*Manufacturer, dimensions and styles may vary

Resin Dipped Solid Tantalum Capacitors (±10%)



- Operating temp. range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Designed for entertainment and commercial equipment
- Rated voltage DC: ≤ +85°C
- Moisture-resistant
- 2.5mm lead spacing = .100" standard
- Low leakage current
- Flame retardant coating

JAMECO EXCLUSIVE — Quantity Save

†**Cross References: Panasonic:** EF Series; **AVX:** Tap Series; **Sprague:** 196D and 199D; **Matsuo:** 202; **Kemet:** T350/ T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **NIC:** NDTM; **Hitachi:** TSD-3

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing 1	10	100	500
33488	TM.1♻	.10	35	4.5 x 7 x 2.5	$.32	$.285	$.217	$.171
545561	TAP104K035SCS♻	.10	35	4 x 6 x 2.5	.29	.216	.181	.135
332111	TDR0.1/50♻	.10	50	4.5 x 7 x 2.5	.33	.296	.213	.198
545570	TAP104K050SCS♻	.10	50	4 x 6 x 2.5	.32	.288	.252	.23
33525	TM.33♻	.33	35	4.5 x 7 x 2.5	.34	.292	.277	.208
546038	TAP474K035SCS♻	.47	35	4.3 x 7 x 2.5	.34	.292	.277	.208
33533	TM.47♻	.47	35	4.5 x 7 x 2.5	.22	.20	.15	.14
545588	TAP105K025SCS♻	1	25	4.3 x 7 x 2.5	.28	.233	.196	.186
545596	TAP105K035SCS♻	1	35	4.3 x 7 x 2.5	.20	.169	.154	.151
154862	TM1/25♻	1	25	4.5 x 7 x 2.5	.29	.216	.201	.151
33664	TM1♻	1	35	4.5 x 7 x 2.5	.39	.32	.255	.191
545609	TAP105K050SCS♻	1	50	4.7 x 7.5 x 2.5	.31	.26	.239	.232
94003	TM2.2/16♻	2.2	16	4.5 x 7 x 2.5	.26	.228	.192	.144
33736	TM2.2/35♻	2.2	35	5 x 8 x 2.5	.43	.39	.312	.234
545941	TAP335K025SCS♻	3.3	25	4.3 x 7 x 2.5	.34	.303	.242	.182
546071	TAP475K025SCS♻	4.7	25	4.3 x 7 x 2.5	.39	.35	.295	.278
546089	TAP475K035SCS♻	4.7	35	4.7 x 7.5 x 2.5	.44	.369	.35	.263
546185	TAP685K025SCS♻	6.8	25	4.7 x 7.5 x 2.5	.52	.45	.36	.298
33875	TM6.8♻	6.8	35	6.5 x 11 x 2.5	.59	.45	.36	.32
545617	TAP106K006SCS♻	10	6.3	4.3 x 7 x 2.5	.36	.311	.28	.21
545625	TAP106K010SCS♻	10	10	4.7 x 7.5 x 2.5	.43	.284	.266	.238
94062	TM10/16♻	10	16	5 x 8 x 2.5	.45	.39	.29	.25
545633	TAP106K020SCS♻	10	20	5.4 x 8 x 2.5	.60	.51	.42	.38
545641	TAP106K025SCS♻	10	25	5.4 x 8 x 2.5	.59	.51	.41	.39

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing 1	10	100	500
94080	TM10/25♻	10	25	5.5 x 9.5 x 2.5	$.39	$.337	$.317	$.238
545650	TAP106K035SCS♻	10	35	5.4 x 8 x 2.5	.98	.90	.72	.54
33691	TM10♻	10	35	5.5 x 11 x 2.5	1.05	.95	.76	.57
332161	TDR10/50 ⊕	10	50	8.5 x 13 x 2.5	3.79	3.34	2.73	2.04
545730	TAP156K016SCS♻	15	16	5.4 x 8 x 2.5	.57	.488	.445	.333
545836	TAP226K006SCS♻	22	6.3	4.7 x 7.5 x 2.5	.54	.466	.34	.255
545852	TAP226K016SCS♻	22	16	5.4 x 8 x 2.5	.41	.36	.34	.329
94095	TM22/16 ⊕	22	16	5.5 x 9.5 x 2.5	.76	.68	.544	.408
545879	TAP226K025SCS♻	22	25	6 x 9.4 x 2.5	1.75	1.27	1.15	1.08
545887	TAP226K035SCS♻	22	35	7 x 11 x 2.5	1.43	1.22	1.19	1.07
545975	TAP336K006SCS♻	33	6.3	5.4 x 8 x 2.5	.36	.306	.245	.184
545991	TAP336K016SCS♻	33	16	6 x 9.4 x 2.5	1.49	1.25	1.00	.75
546100	TAP476K010SCS♻	47	10	6 x 9.4 x 2.5	1.29	1.10	1.04	.78
546118	TAP476K016SCS♻	47	16	6 x 9.4 x 2.5	1.65	1.41	1.33	1.00
94124	TM47/16 ⊕	47	16	6.5 x 11 x 2.5	2.05	1.85	1.48	1.11
33824	TM47♻	47	25	9.5 x 16.5 x 2.5	3.69	3.33	2.82	2.12
546126	TAP476K035CCS♻	47	35	8.2 x 12.5 x 5	5.85	4.89	3.95	3.45
546222	TAP686K016SCS♻	68	16	7 x 11 x 2.5	1.95	1.69	1.35	1.01
332100	TDR68/25♻	68	25	9.5 x 16.5 x 2.5	6.85	6.17	4.94	3.71
545668	TAP107K006SCS♻	100	6.3	6.0 x 9.4 x 2.5	1.42	1.20	1.08	1.01
33702	TM100♻	100	6.3	8.5 x 13 x 2.5	1.19	1.09	.95	.85
597450	TAP107K016CCS♻	100	16	7 x 11 x 2.5	4.95	4.16	3.40	3.06
545684	TAP107K020CCS♻	100	20	8.2 x 12.5 x 2.5	5.65	4.77	3.90	3.77
545895	TAP227K010CCS♻	220	10	8.2 x 12.5 x 2.5	5.05	4.30	3.85	2.88

Great Prices on Special Buys*

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing 1	10	100	500
33486	TM.1/35	.10	35	4.5 x 7	$.23	$.225	$.171	$.135
33507	TM.22/35	.22	35	4.5 x 7	.27	.237	.184	.137
33523	TM.33/35	.33	35	4.5 x 7	.31	.269	.255	.191
33531	TM.47/35	.47	35	4.5 x 7	.20	.184	.138	.129
154860	TM1/25	1	25	4.5 x 7	.30	.246	.194	.168
33662	TM1/35	1	35	4.5 x 7	.29	.261	.225	.198
94001	TM2.2/16	2.2	16	4.5 x 7	.24	.21	.177	.133
94035	TM4.7/16	4.7	16	5 x 8	.36	.284	.216	.195
94043	TM4.7/25	4.7	25	5 x 8	.36	.322	.271	.203

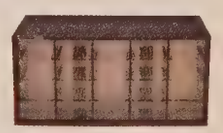
Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing 1	10	100	500
33806	TM4.7/35	4.7	35	5.5 x 9.5	$.41	$.378	$.333	$.25
94060	TM10/16	10	16	5 x 8	.41	.351	.261	.225
94078	TM10/25	10	25	5.5 x 9.5	.53	.45	.36	.324
33689	TM10/35	10	35	6.5 x 11	.80	.71	.62	.465
94094	TM22/16	22	16	5.5 x 9.5	.62	.53	.441	.405
94107	TM22/25	22	25	8.5 x 13	1.65	1.17	1.06	.80
33785	TM33/35	33	25	8.5 x 13	2.09	1.89	1.45	1.09
94123	TM47/16	47	16	6.5 x 11	1.55	1.34	1.14	.93
33700	TM100/35	100	6.3	8.5 x 13	1.31	1.18	.95	.71

*Manufacturer, dimensions and styles may vary

Committed to You

We're committed to providing you with the best service in the industry.

Component Cabinet



- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H

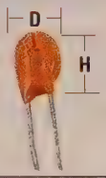
JAMECO EXCLUSIVE

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

Part No.	Description	1	10	50
319600	Component cabinet	$15.95	$13.95	$12.49

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AVX® TAP Series Epoxy Dipped Radial Tantalum Capacitors



TAP Series is a professional grade device manufactured with a flame retardant coating and featuring low "leakage current and impedance, very small physical size, and exceptional temperature stability". Designed and conditioned to operate up to 125°C. Voltages listed are at 85°C, derate voltage 33% at 125°C.

Case	H	D
A	8.5mm (0.330")	4.5mm (0.180")
B	9.0mm (0.350")	4.5mm (0.180")

LOWER PRICES

TAP Series (Bulk)

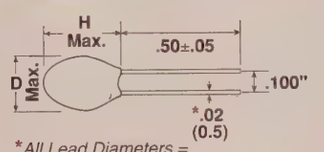
Part No.	Product No.	Case	Value	Voltage	Tolerance	1	10	100
852511	TAP224K035SCS ♻	A	.22µF	35	10%	$.38	$.318	$.256
852393	TAP106K016SCS ♻	A	10µF	16	10%	.58	.56	.386
852473	TAP106K035CCS ♻ ♠	B	10µF	35	10%	.76	.65	.62
852553	TAP226K035CCS ♻ ♠	B	22µF	35	10%	2.05	1.94	1.71

TAP Series (Tape & Reel)

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
852457	TAP106K025SRW ♻ ♠	A	10µF	25	10%	★	Call/Web
852431	TAP106K025CRW ♻ ♠	B	10µF	25	10%	★	Call/Web

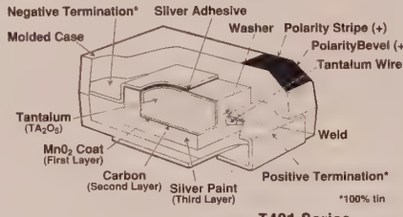
★ Please call or visit our website for minimum order quantity and pricing

KEMET Tantalum Capacitors



*All Lead Diameters = .02 ± .002 (0.5 ± .05 mm)

T350 Series



T491 Series

Tantalum Dipped Radial (±10%)

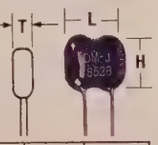
✳ Minimum order 10 pieces

Part No.	Product No.	Value	Voltage	Size (mm) D x H x L.S.	Pricing 1	10	100
1572342	T350E106K025AS ♻	10pF	25	5.5 x 8.9 x 0.1	$.67	$.60	$.45

Tantalum Chip Capacitors (±10%)

1573185	T491A105K025AT ♻	1pF	25V	3.2 x 1.6 x 1.6	✳	$.123	$.099
1573804	T491C106K025AT ♻	10pF	25V	6.0 x 3.2 x 2.5	.33	.251	.168
1574348	T491D226K025AT ♻	22pF	25V	7.3 x 4.3 x 2.8	.50	.377	.248

Dipped Silver Mica Capacitors (±5%)



Metallized Polyester Film Capacitors

- Case type: DM15
- Lead Space: 0.23"
- Tolerance: ±5%
- Operating temp. range: -55° to +125°C

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) L x T x H*	1	10	100	1000
16037	DM220	22pF	500	11 x 4 x 9	$.56	$.465	$.346	$.303
16096	DM470	47pF	500	11 x 4 x 9	.46	.414	.331	.248
16002	DM101	100pF	500	11 x 4 x 9	.45	.36	.30	.25
16088	DM331	330pF	500	11 x 4 x 9	.89	.73	.55	.45
16109	DM471	470pF	500	11 x 4 x 9	1.05	.86	.69	.59

*Capacitor dimensions and styles may vary

Memory Back-Up Capacitors

Applications:
- Memory back-up of remote controllers
- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)

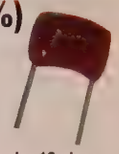
Features:
- Small size vs. capacitance
- Voltage: 5.5VDC
- Excellent volt. holding characteristics for low back-up currents



227811

Part No.	Cross Ref. No.	Value (F)	Size (mm) L x T x Dia.	1	10	100
142957	MBC1.0/5.5	1.0	—	$4.49	$3.99	$3.79
227811	S5R5V105	1.0	24.2 x 4.3 x 18.0	4.49	3.82	2.86

Panasonic® Metallized Film Capacitors (±5%)



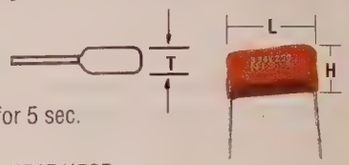
V Series – Stacked

- High volumetric efficiency
- Low dissipation factor: 1% max.
- Stacked & non-inductive construction
- Operating temp. range: -40°C to 85°C

Minimum order 10 pieces

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing 10	100	500
920536	ECQ-V1H223JL ♻	.022	50	7.3 x 3.2 x 5 x 5	$.121	$.102	$.087
920510	ECQ-V1H104JL ♻	.1	50	7.3 x 4 x 5 x 5	.105	.088	.069
920499	ECQ-V1104JM ♻	.1	100	7.3 x 5.8 x 7 x 5	.121	.102	.08
920561	ECQ-V1H224JL ♻	.22	50	7.3 x 4.8 x 5.5 x 5	.13	.11	.087
920595	ECQ-V1H474JL ♻	.47	50	7.3 x 6 x 7.3 x 5	.18	.148	.117
920624	ECQ-V1J474JM ♻	.47	100	10 x 8.1 x 11 x 7.5	.18	.133	.117

Metallized Polyester Film Mylar Capacitors (±10%)



- High performance at low cost
- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec.

†Cross References:
Panasonic: ECQ-E Series; **Sprague:** DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Rubycon:** MC/MN; **Mepco:** 713A1/719A1/C280; **TRW:** X601PE/ X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/ PHE354; **Roederstein:** MKT 1818/MKT 1822; **WIMA:** MKS; **CSF Thompson:** MD/ MC; **Siemens:** B325X-XX; **NIC:** NEM/NRM; **Nichicon:** DDXM; **Phillips:** 712 A1 series

Quantity Save

✳ Minimum order 10 pieces

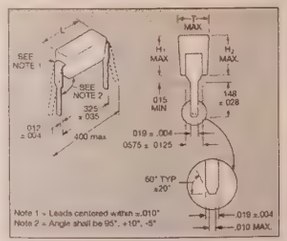
Part No.	Cross Ref. No.†	Value (µF)	Volt. (V)	Size (mm)* L x T x H	Pricing 1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0	✳	$.092	$.062	$.048
26884	MY.01	.01	100	6.0 x 3.0 x 7.0	✳	.13	.096	.091
26905	MY.022	.022	100	6.0 x 3.0 x 10.0	.21	.18	.12	.072
26921	MY.033	.033	100	8.0 x 4.0 x 11.0	✳	.101	.083	.062
26930	MY.047	.047	100	8.0 x 4.0 x 12.0	.30	.222	.167	.125
135562	MY.1/50	.1 ‡	50	14.0 x 6.0 x 12.0	✳	.14	.12	.094
26956	MY.1	.1	100	12.5 x 5.0 x 9.5	.33	.28	.222	.143
93921	MY.1/250	.1	250	12.5 x 5.5 x 10	.29	.20	.168	.146
26972	MY.22	.22	100	12.5 x 5.5 x 10	.23	.21	.132	.099
93964	MY.33/250	.33	250	18.0 x 7.0 x 12.5	.26	.227	.182	.137
26999	MY.47	.47	100	18.0 x 6.0 x 11.5	.33	.29	.27	.23
27001	MY1	1.0	100	18.0 x 7.5 x 14.0	.65	.537	.40	.278
93981	MY1/250	1.0	250	26.0 x 9.0 x 16.0	.53	.38	.33	.25
93999	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0	1.26	1.10	.93	.55

‡ ±20% tolerance *Capacitor dimensions and styles may vary

AVX® Molded DIP Lead Ceramic Capacitors

- DIP package
- Tolerances: 10%, 20%
- Operating temp.: X7R: -55°C; Z5U: -10°C to 85°C

Length (L)	6.60mm (0.260")
Height (H1)	3.43mm (0.135")
Height (H2)	4.19mm (0.165")
Thickness	2.54mm (0.098")



✳ Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	1	10	100
848853	MD015C103KAB	X7R	.01µF	50	10%	$.57	$.47	$.353
848870	MD015C104KAB	X7R	.1µF	50	10%	.70	.59	.438
848933	MD015E104MAB ♠	Z5U	.1µF	50	20%	✳	.26	.25

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

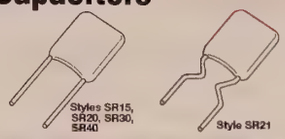
♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Ceramic Capacitors are available online at www.Jameco.com/Passives

AVX® Radial Ceramic Capacitors

- Conformally coated radial leaded MLC
- Temperature coefficients: NPO, X7R, Z5U
- Case material: epoxy
- Lead material: 24AWG solid copper plated



AVX Style	SR15 (A) Case	SR20/SR21 (B) Case	SR30 (C) Case	SR40 (D) Case
Width (W)	3.81mm (0.15")	5.08mm (0.20")	7.62mm (0.30")	10.16mm (0.40")
Height (H)	3.81mm (0.15")	5.08mm (0.20")	7.62mm (0.30")	10.16mm (0.40")
Thickness (T)	2.54mm (0.10")	3.175mm (0.125")	3.81mm (0.15")	3.81mm (0.15")
Lead spacing (L.S.)	2.54mm (0.10")	5.08mm (0.20")	5.08mm (0.20")	5.08mm (0.20")
Lead dia (L.D.)	0.508mm (0.02")	0.508mm (0.02")	0.508mm (0.02")	0.508mm (0.02")

NPO Leaded Case

✳ Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	10	100
849215	SR151A101JAA	NPO	100pF	100	5%	A	✳	$.102	$.099
767421	SR151A561JAA	NPO	560pF	100	5%	A	.38	.33	.284
768212	SR405A473JAA ♠	NPO	.047µF	50	5%	D	3.09	2.93	2.63

X7R Leaded Case

✳ Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	10	100
767463	SR151C102KAR ≷	X7R	1000pF	100	10%	A	✳	$.077	$.075
767480	SR151C332KAA	X7R	3300pF	100	10%	A	.20	.18	.135
849362	SR155C103KAA	X7R	.01µF	50	10%	A	✳	.12	.09
767543	SR155C103KAR ≷	X7R	.01µF	50	10%	A	✳	.071	.069
849830	SR215C103KAA ♠	X7R	.01µF	50	10%	B	✳	.119	.114
767631	SR201C333KAA	X7R	.033µF	100	10%	B	.21	.18	.177
849522	SR205C104KAA	X7R	.1µF	50	10%	B	✳	.131	.115
849477	SR201C104KAA	X7R	.1µF	100	10%	B	.21	.18	.135
849899	SR215C224KAA	X7R	.22µF	50	10%	B	.52	.49	.27
768175	SR305C474KAR ≷	X7R	.47µF	50	10%	C	1.00	.74	.56
850072	SR305C105KAA	X7R	1µF	50	10%	C	.83	.78	.76
768141	SR305C105KAR ≷	X7R	1µF	50	10%	C	.74	.71	.69

Ceramic Leaded Z5U (Bulk)

✳ Minimum order 10 pieces

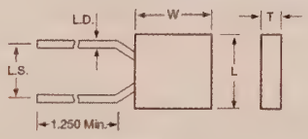
Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	10	100
767682	SR205E104MAR ≷	Z5U	.1µF	50	20%	B	✳	$.089	$.067
849910	SR215E104MAA ≷ ♠	Z5U	.1µF	50	20%	B	✳	.059	.056
767981	SR215E104MAT	Z5U	.1µF	50	20%	B	✳	.051	.046
767869	SR211E224MAA ♠	Z5U	.22µF	100	20%	B	✳	.337	.303
850013	SR215E474MAA ♠	Z5U	.47µF	50	20%	B	✳	.231	.216
768183	SR305E105MAR ≷ ♠	Z5U	1µF	50	20%	C	✳	.272	.259
850030	SR301E105MAA ♠	Z5U	1µF	100	20%	C	✳	.421	.363

Ceramic Leaded Z5U (Tape and Reel)

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	Pricing	
767691	SR205E104MARTR1 ≷ ♠	Z5U	.1µF	50	20%	B	★	Call/Web
767973	SR215E104MARTR1 ≷ ♠	Z5U	.1µF	50	20%	B	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

KEMET Ceramic Molded Radial Capacitors





X7R Series

Minimum order 5 pieces

Part No.	Product No.	Value	Voltage	Size (mm) L x W x H x L.S.	Pricing 5	Pricing 100
1776142	CK05BX220K ♠	22pF	200V	4.83 x 4.83 x 2.29 x 5.08	$.253	$.238
1776177	CK05BX330K ♠	33pF	200V	4.83 x 4.83 x 2.29 x 5.08	.208	.188
1776097	CK05BX101K ♠	100pF	200V	4.83 x 4.83 x 2.29 x 5.08	.206	.186
1776151	CK05BX221K ♠	220pF	200V	4.83 x 4.83 x 2.29 x 5.08	.206	.186
1640325	CK05BX102K TR ♠	1000pF	200V	4.83 x 4.83 x 2.29 x 5.08	.194	.182
1776118	CK05BX102K ♠	1000pF	200V	4.83 x 4.83 x 2.29 x 5.08	.23	.192
1776169	CK05BX222K ♠	2200pF	100V	4.83 x 4.83 x 2.29 x 5.08	.206	.186
1776126	CK05BX103K ♠	0.01µF	100V	4.83 x 4.83 x 2.29 x 5.08	.196	.183
1776134	CK06BX104K ♠	0.1µF	100V	7.37 x 7.37 x 2.29 x 5.08	.245	.176
1776185	CK05BX104K ♠	1µF	50V	4.83 x 4.83 x 2.29 x 5.08	.265	.245

JAMECO ValuePro Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, Z5U Temperature Coefficient

- Operating temp. range: +10°C to +85°C
- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.
- Cap. change over temp. range: +22 to -56%

JAMECO EXCLUSIVE



✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing 1	10	100	1000	5000
332291	CD3.3/1000 ⊕	3.3pF	1000	5 x 2.5	$.24	$.179	$.134	$.119	$.107
15335	DC10 ≷	10pF	50	5 x 2.5	✳	.07	.05	.02	.015
332196	CD12/50 ≷	12pF	50	5 x 2.5	✳	.03	.026	.022	.02
332321	CD20/1000 ⊕	20pF	1000	5 x 2.5	.44	.35	.20	.18	.135
15407	DC22 ≷	22pF	50	6 x 2.5	✳	.078	.055	.028	.022
332217	CD33/50 ≷	33pF	50	5 x 2.5	✳	.069	.034	.031	.025
15512	DC47 ≷	47pF	50	5 x 2.5	✳	.055	.049	.04	.03
15343	DC100 ≷	100pF	50	5 x 2.5	✳	.056	.05	.04	.03
332371	CD150/1000 ⊕	150pF	1000	5 x 2.5	.45	.35	.263	.187	.168
15415	DC220 ≷	220pF	50	5 x 2.5	✳	.05	.045	.036	.027
332436	CD1000/1000 ≷	1000pF	1000	5 x 2.5	.39	.248	.179	.101	.095
332460	CD5000/1000 ⊕	5000pF	1000	7 x 2.5	.31	.30	.186	.177	.132
15192	DC.001 ≷	.001µF	50	6 x 2.5	✳	.067	.06	.048	.036
15231	DC.01 ≷	.01µF	50	6 x 2.5	✳	.067	.045	.033	.029
97377	DC.01/1K20 ≷	.01µF	1000	12 x 2.5	.23	.20	.133	.093	.073
332487	CD20000/1000 ≷	.02µF	1000	16 x 2.5	.60	.54	.459	.367	.275
15247	DC.022 ≷	.022µF	50	8 x 2.5	✳	.07	.063	.05	.037
15255	DC.047 ≷	.047µF	50	8 x 2.5	✳	.093	.083	.066	.049
332507	CD50000/1000 ⊕	.05µF	1000	16 x 2.5	1.35	1.28	.81	.65	.488
151118	DC.1/25 ≷	.1µF	25	6 x 2.5	.20	.155	.145	.089	.078
15272	DC.1 ≷	.1µF	50	8 x 2.5	.25	.20	.174	.154	.126
332516	CD100000/1000 ≷	.1µF	1000	21 x 2.5	1.99	1.79	1.52	1.22	.92

Great Prices on Special Buys✳

15333	DC10	10pF	50	5	✳	$.063	$.046	$.018	$.014
15405	DC22	22pF	50	6	✳	.076	.054	.027	.021
15341	DC100	100pF	50	5	✳	.05	.035	.025	.02
15413	DC220	220pF	50	5	✳	.046	.033	.023	.017
15528	DC470	470pF	50	5	✳	.08	.065	.025	.022
15190	DC.001	.001µF	50	6	✳	.06	.054	.043	.032
15211	DC.0047	.0047µF	50	6	✳	.045	.032	.027	.02
15229	DC.01	.01µF	50	6	✳	.06	.04	.03	.02
97375	DC.01/1K20	.01µF	1000	12	.20	.146	.139	.111	.083
15245	DC.022	.022µF	50	8	✳	.063	.045	.036	.027
15253	DC.047	.047µF	50	8	✳	.084	.076	.06	.045
151116	DC.1/25	.1µF	25	6	.21	.15	.135	.115	.086
15270	DC.1	.1µF	50	8	.21	.153	.133	.117	.097

*Capacitor dimensions and styles may vary ✳Manufacturer may vary

JAMECO ValuePro Monolithic Ceramic Capacitors

XR7 Series (±10%)

JAMECO EXCLUSIVE

Applications: • Data processing • Communications engineering



Operating temp. range: -10°C to +85°C

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing 1	10	100	1000	5000
332583	MOC100/100 ≷	100pF	100	5.0x5.0x3.0x2.5	✳	$.14	$.12	$.081	$.061
332612	MOC470/100 ≷	470pF	100	5.0x5.0x3.0x2.5	✳	.121	.109	.087	.065
544825	SR151C102KAA	1000pF	100	3.8x2.5x3.8x5.1	✳	.087	.069	.043	.041
597281	SR211C103KAA	.01µF	100	3.8x2.5x3.8x5.1	✳	.118	.098	.046	.044
544833	SR151C103KAA	.01µF	100	3.8x2.5x3.8x5.1	✳	.067	.05	.045	.035
332647	MOC10000/100 ≷	.01µF	100	5.0x5.0x3.0x2.5	✳	.083	.061	.044	.033
544892	SR211C223KAA ≷	.022µF	100	3.8x2.5x3.8x5.1	✳	.169	.143	.119	.107
332655	MOC22000/100 ≷	.022µF	100	5.0x5.0x3.0x2.5	✳	.091	.076	.061	.046
544905	SR211C333KAA ≷	.033µF	100	3.8x2.5x3.8x5.1	✳	.148	.077	.06	.045
544913	SR211C473KAA	.047µF	100	3.8x2.5x3.8x5.1	✳	.142	.139	.11	.107
544921	SR215C104KAA	.1µF	50	3.8x2.5x3.8x5.1	✳	.111	.088	.057	.054
544884	SR211C104KAA	.1µF	100	3.8x2.5x3.8x5.1	✳	.127	.09	.068	.061
332672	MOC100000/100 ≷	.1µF	100	5.0x5.0x3.0x2.5	✳	.132	.096	.067	.064
544948	SR305C474KAA	.47µF	50	3.8x2.5x3.8x5.1	.46	.396	.24	.232	.224

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Ceramic Capacitors & EMI Filters

Color Code Legend: New Sale Lower$ QtySave

Additional Capacitors are available online at www.Jameco.com/Passives

Monolithic Ceramic Capacitors (Continued)

Z5U Series (±20%)

JAMECO EXCLUSIVE

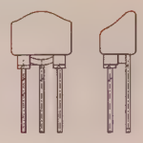
✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing 1	10	100	1000	5000
81543	MD10 ₹	10pF	50	3.5x2.0x3.0x2.5	✳	$.10	$.065	$.045	$.035
81535	MD22 ₹	22pF	50	4.0x2.0x4.0x2.5	✳	.105	.081	.05	.045
332559	MOC33/100 ₹	33pF	100	4.2x3.0x4.2x2.5	.25	.167	.122	.08	.076
81519	MD.001 ₹	.001µF	50	4.5x2.0x3.0x2.5	✳	.10	.078	.075	.068
25509	MD.01 ₹	.01µF	50	3.5x2.0x3.0x2.5	✳	.09	.06	.051	.048
57623	MD.047 ₹	.047µF	50	2.5x2.5x3.0x2.5	✳	.154	.112	.076	.057
544868	SR151C472KAA	.1µF	50	3.8x2.5x4.0x2.5	✳	.094	.06	.034	.032
25525	MD.1 ₹	.1µF	50	3.4x2.2x3.6x2.5	✳	.078	.067	.045	.043
25541	MD.22 ⊕	.22µF	50	6.0x2.0x4.5x2.5	.21	.189	.133	.089	.066
544930	SR215E334MAA	.33µF	50	3.8x2.5x3.8x5.1	.20	.174	.111	.087	.081
138239	MD.33 ₹	.33µF	50	6.0x2.0x8.0x2.5	.20	.178	.16	.128	.096
25560	MD.47 ₹	.47µF	50	4.5x2.5x4.5x2.5	.43	.387	.329	.263	.197
544956	SR305E105MAA	1µF	50	3.8x2.5x3.8x5.1	.20	.19	.149	.141	.131
81510	MD1 ⊕	1µF	50	6.0x3.0x7.0x2.5	.53	.48	.355	.255	.233
Great Prices on Special Buys✳									
81533	MD22	22pF	50	4.0x2.0x4.0	✳	$.066	$.046	$.035	$.026
81517	MD.001	.001µF	50	4.5x2.0x3.0	✳	.068	.05	.034	.026
25507	MD.01	.01µF	50	3.5x2.0x3.0	✳	.083	.055	.047	.044
57621	MD.047	.047µF	50	2.5x2.5x3.0	✳	.117	.086	.06	.052
25523	MD.1	.1µF	50	6.0x2.0x4.0	✳	.07	.06	.04	.035
25540	MD.22	.22µF	50	6.0x2.0x4.5	.20	.174	.122	.081	.075
138237	MD.33	.33µF	50	6.0x2.0x8.0	✳	.148	.109	.071	.064
25558	MD.47	.47µF	50	4.5x2.5x4.5	✳	.128	.109	.087	.065
81509	MD1	1µF	50	6.0x3.0x7.0	.30	.23	.161	.149	.124

✳ Manufacturer, dimensions and styles may vary

EMI Filters

muRata



Lead EMIFIL® Capacitor Type (Broadband Type)

- Operating temperature range: -25°C to 85°C
- Rated current: 7A
- Dimensions (max.): 12.0mm W x 7.5mm D x 105mm H

Mininum order 10 pieces

Part No.	Product No.	Capacitance	Tolerance	Rated Volt.	10	100
1853996	DSS9NC52A222Q55B ♠	2200pF	±20%	100VDC	$.51	$.46
1853970	DSS9NC51H223Q55B ♠	22000pF	+50%, -20%	50VDC	.51	.46

Lead EMIFIL® Capacitor Type (for General Small Type)



- Operating temperature range: -25°C to 85°C
- Rated current: 6A
- Dimensions (max.): 8.0mm W x 2.54mm D x 7.0mm H

Mininum order 10 pieces

Part No.	Product No.	Capacitance	Tolerance	Rated Volt.	10	100
1853793	DSS6NC52A101Q55B ♠	100pF	±20%	100VDC	$.40	$.363
1853873	DSS6NC52A471Q55B ♠	470pF	±20%	100VDC	.41	.366
1853806	DSS6NC52A102Q55B ♠	1000pF	±20%	100VDC	.41	.366
1853881	DSS6NE52A222Q55B ♠	2200pF	+80%, -20%	100VDC	.41	.366
1853937	DSS6NZ82A103Q55B ♠	10000pF	±30%	100VDC	.57	.54
1853902	DSS6NF31C223Q55B ♠	22000pF	+80%, -20%	16VDC	.41	.366

Lead EMIFIL® Inductor Type



- Operating temperature range: -40°C to 85°C
- Dimensions: 45mm L (min.) x 3.6mm Dia. x 20mm lead length

Mininum order 10 pieces

Part No.	Product No.	Rated Current	10	100
1844580	BL01RN1A1D2B	7A	$.096	$.088

SMT Electrolytic & Ceramic Capacitors

Additional SMT Capacitors are available online at www.Jameco.com/Passives

Aluminum Electrolytic Capacitors

Operating Temp. Range: -55°C to +105°C

JAMECO EXCLUSIVE

Quantity Save



Tape



Individual



Side View



Bottom View

Leakage current (20°C) after 2 minutes	≤ .01CV or 3µA

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing 1	10	100	500
610263	UWT1C100MCL1GB ₹	10	16	4.0	✳	$.116	$.108	$.098
608569	UUD1E101MCL1GS ₹	100	25	6.3	.68	.65	.61	.456
608737	UUD1V101MNL1GS ₹	100	35	8.0	.65	.59	.468	.351

† Cross Reference: Panasonic: VS Series

8mm (.315") Thru-Hole Ceramic Trimmer Capacitors

JAMECO EXCLUSIVE

Quantity Save



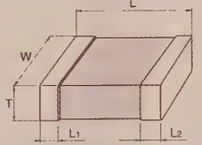
- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40~200 g-cm
- Operating temperature range: -55°C~+85°C
- Insulation resistance: 10MΩ minimum @ 250VDC
- Q Factor @ 1MHz: P/Ns **134820/32839:** >300; P/Ns **32855/94466:** >200

Part No.	Capacitance Range (pF)	Color Code	Pricing 1	10	100	1000
134820	3.5–13.0₹	Ivory	$.87	$.60	$.60	$.45
32839	4.0–34.0₹	Yellow	1.15	.98	.90	.68
32855	6.0–70.0₹	None	.94	.79	.73	.69
94466	8.5–120₹	None	.90	.81	.65	.486

Multilayer Ceramic Chip Capacitors

Panasonic

- Small in size and wide capacitance range
- Superior humidity characteristic and long life due to monolithic construction
- Excellent solderability and resistance to soldering heat
- Low self-inductance and excellent frequency characteristics



Size	L(mm)	W(mm)	L1/L2(mm)
0402	1	0.5	0.15
0603	1.6	0.8	0.3
0805	2	1.25	0.5

Temp. Coeff.	Range
NPO	-55°C to +125°C
X5R	-55°C to +85°C
X7R	-55°C to +125°C
F / Y5V	-30°C to +85°C

Size 0402

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
858453	ECJ-0EC1H680J ₹♠	NPO	68pF	50	±5%	★	Call/Web
919543	ECJ-0EB1E103K ₹♠	X7R	.01µF	25	±10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

Our goal is to provide you with more of what you want. Send your requests to **NewProducts@Jameco.com**.

Size 0603

Mininum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	100
859181	ECJ-1VC1H330J ₹	NPO	33pF	50	±5%	$.03	$.021
859106	ECJ-1VC1H221J ₹♠	NPO	220pF	50	±5%	★	Call/Web
919754	ECJ-1VB1H102K ₹♠	X7R	1000pF	50	±10%	★	Call/Web
858779	ECJ-1VB1H332K ₹♠	X7R	3300pF	50	±10%	★	Call/Web
919789	ECJ-1VB1H103K ₹♠	X7R	10,000pF	50	±10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

₹ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Panasonic®

Multilayer Ceramic Chip Capacitors (Continued)

Size 0603 (Continued)

Mininum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
919893	ECJ-1VB1H333K ♻♠	X7R	.033µF	50	±10%	★	Call/Web
919720	ECJ-1VB1E103K ♻♠	X7R	10,000pF	25	±10%	★	Call/Web
919666	ECJ-1VB1C104K ♻♠	X7R	.1µF	16	±10%	★	Call/Web
919691	ECJ-1VB1C105K ♻♠	X5R	1µF	16	±10%	★	Call/Web
919578	ECJ-1VB0J105K ♻♠	X5R	1µF	6.3	±10%	★	Call/Web
919631	ECJ-1VB0J475M ♻♠	X5R	4.7µF	6.3	±20%	★	Call/Web
920077	ECJ-1VF1H104Z ♻♠	Y5V	.1µF	50	+80/-20%	★	Call/Web
920042	ECJ-1VF1E104Z ♻	Y5V	.1µF	25	+80/-20%	.032	.024
920018	ECJ-1VF1A105Z ♻♠	Y5V	1µF	10	+80/-20%	.032	.021

★ Please call or visit our website for minimum order quantity and pricing.

Size 0805

Mininum order 10 pieces

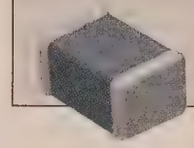
Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
859739	ECJ-2VC1H470J ♻♠	NPO	47pF	50	±5%	★	Call/Web
920270	ECJ-2VC1H101J ♻♠	NPO	100pF	50	±5%	★	Call/Web
920237	ECJ-2VB1H103K ♻♠	X7R	10,000pF	50	±10%	★	Call/Web
920341	ECJ-2YB1H104K ♻♠	X7R	.1µF	50	±10%	★	Call/Web
920202	ECJ-2VB1E104K ♻♠	X7R	.1µF	25	±10%	★	Call/Web
920173	ECJ-2VB1C104K ♻♠	X7R	.1µF	16	±10%	★	Call/Web
859827	ECJ-2VF1H104Z ♻♠	Y5V	.1µF	50	+80/-20%	★	Call/Web
920157	ECJ-2FF1A106Z ♻	F	10µF	10	+80/-20%	.192	.144

★ Please call or visit our website for minimum order quantity and pricing.

AVX® Multilayer Ceramic Chip Capacitors

Size	0402 Case Size	0603 Case Size
Length (L)	1.0mm ±0.10mm (0.40" ±0.004")	1.60mm ±0.15mm (0.063" ±0.006")
Width (W)	0.5mm ±0.10mm (0.02" ±0.004")	0.81mm ±0.15mm (0.032" ±0.006")
Thickness (T)	0.5mm ±0.05mm (0.20" ±0.006")	0.80mm ±0.10mm (0.030" ±0.006")
Size	**0805 Case Size**	**1206 Case Size**
Length (L)	2.01mm ±0.20mm (0.790" ±0.008")	3.2mm ±0.20mm (0.126" ±0.008")
Width (W)	1.25mm ±0.20mm (0.049" ±0.008")	1.6mm ±0.20mm (0.063" ±0.008")
Thickness (T)	1.25mm ±0.20mm (0.020" ±0.010")	0.5mm ±0.25mm (0.020" ±0.100")

Temperature Coefficient:



C0G (NP0) = -55°C to +125°C
X5R = -55°C to +85°C
X7R = -55°C to +125°C
Y5V = -30°C to +85°C
Z5U = +10°C to +85°C



Size 0402

Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
734856	04025A470JAT2A ♻	NP0	47pF	50	5%	$.109	$.082
734813	04023A221JAT2A ♻♠	NP0	220pF	25	5%	★	Call/Web
734899	0402YC223KAT2A ♻♠	X7R	0.022µF	16	10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

Size 0603

Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
765741	06031A180JAT2A ♻	NP0	18pF	100	5%	$.024	$.018
734979	06033A101JAT2A ♻	NP0	100pF	25	5%	.178	.134
735074	06035A101JAT2A ♻♠	NP0	100pF	50	5%	★	Call/Web
734987	06033A102JAT2A ♻♠	NP0	1000pF	25	5%	★	Call/Web
735091	06035A102JAT2A ♻♠	NP0	1000pF	50	5%	★	Call/Web
735648	0603YD474KAT2A ♻♠	X5R	.47µF	16	10%	★	Call/Web
735630	0603YD105KAT2A ♻♠	X5R	1µF	16	10%	★	Call/Web
734961	06031C471KAT2A ♻♠	X7R	470pF	100	10%	★	Call/Web
735533	0603YC102KAT2A ♻	X7R	1000pF	16	10%	.119	.089
735402	06035C222KAT2A ♻♠	X7R	2200pF	50	10%	★	Call/Web
766305	06035C822KAT2A ♻	X7R	8200pF	50	10%	.108	.081
735541	0603YC103KAT2A ♻♠	X7R	.01µF	16	10%	★	Call/Web
735550	0603YC104JAT2A ♻	X7R	.1µF	16	5%	.178	.134

★ Please call or visit our website for minimum order quantity and pricing.

Size 0805

Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
766735	08055A2R2CAT2A ♻	NP0	2.2pF	50	.25pF	$.075	$.056
766751	08055A3R3CAT2A ♻	NP0	3.3pF	50	.25pF	.075	.056
735867	08055A100JAT2A ♻♠	NP0	10pF	50	5%	★	Call/Web
735955	08055A180JAT2A ♻	NP0	18pF	50	5%	.10	.075
735971	08055A220JAT2A ♻	NP0	22pF	50	5%	.10	.075
735980	08055A220KAT2A ♻♠	NP0	22pF	50	10%	★	Call/Web
735699	08051A220JAT2A ♻	NP0	22pF	100	5%	.058	.044
736018	08055A270JAT2A ♻	NP0	27pF	50	5%	.099	.074
736026	08055A300JAT2A ♻	NP0	30pF	50	5%	.069	.052
736034	08055A330JAT2A ♻	NP0	33pF	50	5%	.109	.082
736042	08055A390JAT2A ♻	NP0	39pF	50	5%	.109	.082

★ Please call or visit our website for minimum order quantity and pricing.

Quantity Save LOWER PRICES

Size 0805 (Continued)

Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
736069	08055A470JAT2A ♻	NP0	47pF	50	5%	$.10	$.075
736085	08055A560JAT2A ♻	NP0	56pF	50	5%	.109	.082
736106	08055A680JAT2A ♻	NP0	68pF	50	5%	.099	.074
766663	08055A101JAT4A ♻	NP0	100pF	50	5%	.043	.032
735947	08055A151JAT2A ♻	NP0	150pF	50	5%	.10	.075
766698	08055A181JAT2A ♻	NP0	180pF	50	5%	.074	.056
735998	08055A221JAT2A ♻	NP0	220pF	50	5%	.109	.082
735728	08051A331JAT2A ♻	NP0	330pF	100	5%	.168	.126
736051	08055A391JAT2A ♻	NP0	390pF	50	5%	.131	.098
736093	08055A561JAT2A ♻	NP0	560pF	50	5%	.158	.119
736122	08055A821JAT2A ♻	NP0	820pF	50	5%	.162	.122
735921	08055A122JAT2A ♻	NP0	1200pF	50	5%	.143	.107
736131	08055C101KAT2A ♻♠	X7R	100pF	50	10%	★	Call/Web
766807	08055C102KAT4A ♻	X7R	1000pF	50	10%	.029	.022
736245	08055C222KAT2A ♻♠	X7R	2200pF	50	10%	★	Call/Web
736165	08055C103JAT2A ♻♠	X7R	.01µF	50	5%	★	Call/Web
735752	08051C103JAT2A ♻	X7R	.01µF	100	5%	.10	.075
735832	08053C104KAT2A ♻	X7R	.1µF	25	10%	.016	.012
736190	08055C104JAT2A ♻	X7R	.1µF	50	5%	.143	.107
766903	0805YG105ZAT2A/2K REELS	Y5V	1µF	16	+80/-20%	.025	.019
735859	08053G105ZAT2A ♻	Y5V	1µF	25	+80/-20%	.149	.112
736350	08055E104MAT2A ♻♠	Z5U	.1µF	50	20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

Size 1206

Minimum order 10 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing 10	Pricing 100
740156	12061A221JAT2A ♻	NP0	220pF	100	5%	$.248	$.186
740412	12065A332JAT2A ♻♠	NP0	3300pF	50	5%	★	Call/Web
740439	12065C102KAT2A ♻♠	X7R	1000pF	50	10%	★	Call/Web
740228	12061C102JAT2A ♻	X7R	1000pF	100	5%	.059	.044
740535	12065C472KAT2A ♻	X7R	4700pF	50	10%	.117	.088
740578	12065C682JAT2A ♻♠	X7R	6800pF	50	5%	★	Call/Web
740463	12065C104JAT2A ♻	X7R	.1µF	50	5%	.069	.052
740480	12065C104MAT2A ♻♠	X7R	.1µF	50	20%	★	Call/Web
740560	12065C474KAT2A ♻♠	X7R	.47µF	50	10%	★	Call/Web
740658	1206YC105KAT2A ♻♠	X7R	1µF	16	10%	.12	.11
740720	1206ZC225KAT2A ♻♠	X7R	2.2µF	10	10%	★	Call/Web
740738	1206ZG106ZAT2A ♻♠	Y5V	10µF	10	+80/-20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

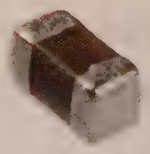
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♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

KEMET CHARGED

Ceramic Chip Capacitors

EIA Size Code	Metric Size Code	Dimensions mm (in.) L = Length	W = width
0402	1005	1 (0.04)	0.5 (0.02)
0603	1608	1.6 (0.063)	0.8 (0.032)
0805	2012	2.0 (0.079)	1.25 (0.049)
1206	3216	3.2 (0.126)	1.6 (0.063)



Size 0402 COG (NPO)

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1564422	C0402C220J5GAC TU♠	22pF	5%	50V	$.014	$.008
1564511	C0402C330J5GAC TU♠	33pF	5%	50V	.014	.008
1564570	C0402C470J5GAC TU♠	47pF	5%	50V	.014	.008
1564140	C0402C101J5GAC TU♠	100pF	5%	50V	.014	.008

Size 0603 COG (NPO)

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1564713	C0603C100J5GAC TU	10pF	5%	50V	$.016	$.009
1565222	C0603C150J5GAC TU	15pF	5%	50V	.021	.012
1565329	C0603C180J5GAC TU♠	18pF	5%	50V	.021	.012
1565396	C0603C220J5GAC TU	22pF	5%	50V	.021	.012
1565601	C0603C270J5GAC TU	27pF	5%	50V	.021	.012
1565687	C0603C330J5GAC TU	33pF	5%	50V	.019	.011
1565767	C0603C390J5GAC TU	39pF	5%	50V	.008	.007
1565847	C0603C470J5GAC TU	47pF	5%	50V	.022	.012
1566049	C0603C680J5GAC TU	68pF	5%	50V	.021	.012
1564748	C0603C101J5GAC TU	100pF	5%	50V	.015	.008
1564756	C0603C101K5GAC TU♠	100pF	10%	50V	.015	.008
1565249	C0603C151J5GAC TU	150pF	5%	50V	.025	.014
1565417	C0603C221J5GAC TU	220pF	5%	50V	.027	.015
1565610	C0603C271J5GAC TU	270pF	5%	50V	.027	.015
1565863	C0603C471J5GAC TU	470pF	5%	50V	.033	.025
1564772	C0603C102J5GAC TU	1000pF	5%	50V	.03	.02

Size 0603 X7R

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1565880	C0603C471K5RAC TU♠	470pF	10%	50V	$.038	$.021
1564781	C0603C102J5RAC TU	1000pF	5%	50V	.02	.012
1564844	C0603C102K5RAC TU	1000pF	10%	50V	.012	.005
1565484	C0603C222K5RAC TU	2200pF	10%	50V	.015	.009
1565716	C0603C332K5RAC TU	3300pF	10%	50V	.023	.013
1566065	C0603C682K5RAC TU	6800pF	10%	50V	.019	.011
1564879	C0603C103K3RAC TU	10,000pF	10%	25V	.039	.03
1564861	C0603C103J5RAC TU	10,000pF	5%	50V	.018	.01
1564908	C0603C103K5RAC TU	10,000pF	10%	50V	.013	.007
1564932	C0603C103M5RAC TU♠	10,000pF	20%	50V	.018	.01
1565505	C0603C223K5RAC TU	22,000pF	10%	50V	.028	.016
1565935	C0603C473K4RAC TU♠	47,000pF	10%	16V	.068	.039
1565011	C0603C104K8RAC TU♠	100,000pF	10%	10V	.012	.007
1565054	C0603C104M4RAC TU	100,000pF	20%	16V	.012	.007
1564991	C0603C104K4RAC TU	100,000pF	10%	16V	.012	.009
1564975	C0603C104K3RAC TU	100,000pF	10%	25V	.068	.039

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LOWER PRICES

Size 0402 X5R

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1564289	C0402C104K8PAC TU♠	100,000pF	10%	10V	$.014	$.008

Size 0402 X7R

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1564182	C0402C102K5RAC TU♠	1000pF	10%	50V	$.011	$.006
1564246	C0402C103K4RAC TU♠	10,000pF	10%	16V	.011	.006
1564238	C0402C103K3RAC TU♠	10,000pF	10%	25V	.011	.006
1564254	C0402C103K5RAC TU♠	10,000pF	10%	50V	.014	.008

Size 0805 COG (NPO)

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1566170	C0805C100J5GAC TU♠	10pF	5%	50V	$.035	$.02
1566858	C0805C220J5GAC TU♠	22pF	5%	50V	.057	.032
1567156	C0805C330J5GAC TU♠	33pF	5%	50V	.032	.018
1567412	C0805C470J5GAC TU♠	47pF	5%	50V	.032	.018
1566209	C0805C101J5GAC TU♠	100pF	5%	50V	.057	.032
1566225	C0805C101K5GAC TU♠	100pF	10%	50V	.029	.016
1567172	C0805C331J5GAC TU♠	330pF	5%	50V	.032	.018

Size 0805 X7R

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1566321	C0805C102K5RAC TU	1000pF	10%	50V	$.019	$.011
1566284	C0805C102K1RAC TU♠	1000pF	10%	100V	.061	.035
1566997	C0805C222K5RAC TU♠	2200pF	10%	50V	.022	.012
1567527	C0805C472K5RAC TU♠	4700pF	10%	50V	.025	.014
1566348	C0805C103J5RAC TU♠	10,000pF	5%	50V	.029	.016
1566372	C0805C103K5RAC TU♠	10,000pF	10%	50V	.019	.011
1566399	C0805C103M5RAC TU♠	10,000pF	20%	50V	.019	.011
1566356	C0805C103K1RAC TU♠	10,000pF	10%	100V	.025	.014
1567017	C0805C223K5RAC TU♠	22,000pF	10%	50V	.034	.019
1567543	C0805C473K5RAC TU♠	47,000pF	10%	50V	.035	.02
1566436	C0805C104K3RAC TU♠	100,000pF	10%	25V	.026	.015
1566479	C0805C104K5RAC TU	100,000pF	10%	50V	.026	.014
1566495	C0805C104M5RAC TU♠	100,000pF	20%	50V	.026	.014
1566559	C0805C105K4RAC TU♠	1,000,000pF	10%	16V	.055	.032

Size 1206 X7R

Please order in increments of 10

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 10	Pricing 500
1568061	C1206C104K1RAC TU	100,000pF	10%	100V	$.137	$.08

Size 0603 Y5V

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1565071	C0603C104Z3VAC TU	100,000pF	+80%, -20%	25V	$.011	$.006

Size 0805 Y5V

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1566612	C0805C105Z4VAC TU♠	1,000,000pF	+80%, -20%	16V	$.055	$.032

Size 0805 Z5U

Please order in increments of 100

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing 100	Pricing 500
1566508	C0805C104M5UAC TU♠	100,000pF	20%	50V	$.034	$.019

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

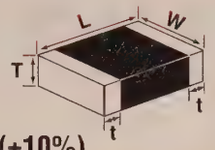
SMT Ceramic & Tantalum Chip Capacitors

Additional SMT Capacitors are available online at www.Jameco.com/Passives

Multilayer Ceramic Chip Capacitors

SMT Case Dimensions (mm)

	0805	1206	1210
L	2.0	3.2	3.2
W	1.25	1.6	2.5
T	0.065	1.55	1.02
t	0.25	0.5	0.5



X7R Series (±10%)

0805 SMT

Part No.	Capacitance	Volt.	Pricing per each* 10	100	500	1000
544323	1000pF	5	$.024	$.017	$.015	$.011
544331	.01µF	50	.075	.065	.032	.022
87372	.1µF	25	.09	.06	.05	.038
544340	.1µF	50	.087	.051	.03	.021

1206 SMT

Part No.	Capacitance	Volt.	Pricing per each* 10	100	500	1000
87390	.1µF	50	$.084	$.076	$.061	$.046
544665	1µF	25	.296	.177	.102	.077

Great Prices on Special Buys*

87329	⊕ .01µF	50	$.081	$.054	$.034	$.024
87388	.1µF	50	.049	.029	.019	.016
651410	.47µF	50	.205	.111	.073	.055
651428	1µF	25	.182	.105	.073	.066

* Please order in quantity increments shown *Manufacturer may vary

JAMECO EXCLUSIVE

X5R Series (±10%)

Great Prices on Special Buys*

1206 SMT

Part No.	Capacitance	Volt.	Pricing per each* 10	100	500	1000
651461	4.7µF	25	$.41	$.304	$.217	$.146

1210 SMT

Part No.	Capacitance	Volt.	Pricing per each* 10	100	500	1000
651760	47µF	6.3	$2.29	$1.50	$.86	$.62

NPO Temp Series (±5%)

Great Prices on Special Buys*

1206 SMT

Part No.	Capacitance	Volt.	Pricing per each* 10	100	500	1000
650863	47pF	50	$.158	$.131	$.08	$.06

Z5U Series (±20%)

1206 SMT

Part No.	Capacitance	Volt.	Pricing per each* 100	500	1000	5000
87222	47µF	50	$.25	$.225	$.198	$.171

Resin Molded Chip Tantalum Electrolytic Capacitors (±10%)



Case Size (Dimensions in mm)

EIA Case Code	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0

16V SMT

Part No.	Capacitance	Case Size	Pricing per each* 10	100	500	1000
545140	10µF	B	$.364	$.339	$.312	$.234
545300	22µF	C	.60	.53	.48	.46
545449	100µF	D	1.60	1.28	1.24	1.20

* Prepackaged: please order in quantity increments shown

Save Big! Special Values!

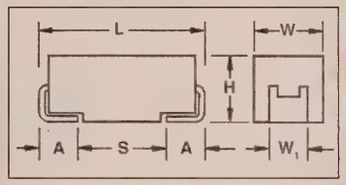
New Lower Prices = Orange
Quantity Discounts = Green

AVX® TPS Series Low ESR Tantalum Chip Capacitors

LOWER PRICES

- Low ESR levels previously only seen by other technologies
- Capacitance tolerance: 10%, 20%
- Temperature range: -55°C to 125°C

Case	EIA Code	L	W	H	W1	A	S (min.)
C	6032-28	6mm (0.236")	3.2mm (0.126")	2.6mm (0.102")	2.2mm (0.087")	1.3mm (0.051")	2.9mm (0.114")
D	7343-31	7.3mm (0.287")	4.3mm (0.169"0	2.9mm (0.114")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")





Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
852650	TPSC106M025R0500	C	10µF	25	20%	★	Call/Web
768618	TPSC336K016R0300	C	33µF	16	10%	★	Call/Web
768626	TPSC476K010R0350	C	47µF	10	10%	★	Call/Web
852676	TPSC107K006R0150	C	100µF	6.3	10%	★	Call/Web
852705	TPSC107M006R0150	C	100µF	6.3	20%	★	Call/Web
768589	TPSC107M010R0100	C	100µF	10	20%	★	Call/Web
852781	TPSD106K035R0300	D	10µF	35	10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

These products are sold on Tape and Reel

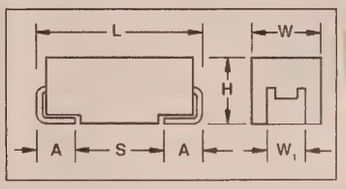
Part No.	Product No.	Case	Value	Voltage	Tolerance	1	10
852801	TPSD106M035R0300	D	10µF	35	20%	★	Call/Web
852932	TPSD226M025R0200	D	22µF	25	20%	★	Call/Web
852975	TPSD336M020R0200	D	33µF	20	20%	★	Call/Web
852828	TPSD107K016R0150	D	100µF	16	10%	★	Call/Web
853126	TPSE227M010R0100	E	220µF	10	20%	★	Call/Web
853249	TPSE477M010R0050	E	470µF	10	20%	2.45	1.84

★ Please call or visit our website for minimum order quantity and pricing.

AVX® TAJ Series 125°C Standard Tantalum Chip Capacitors

The TAJ standard series encompasses the five key sizes recognized by major OEMs. The operational temperature is -55°C to 85°C at rated voltage and up to 125°C with voltage derated to 33%.

Case	EIA Code	L	W	H	W1	A	S (min.)
A	3216-18	3.2mm (0.126")	1.6mm (0.063")	1.6mm (0.063")	1.2mm (0.047")	0.8mm (0.031")	1.1mm (0.043")
B	3528-21	3.5mm (0.138")	2.8mm (0.110")	1.9mm (0.075")	2.2mm (0.087")	0.8mm (0.031")	1.4mm (0.055")
C	6032-28	6mm (0.236")	3.2mm (0.126")	2.6mm (0.102")	2.2mm (0.087")	1.3mm (0.051")	2.9mm (0.114")
D	7343-31	7.3mm (0.287")	4.3mm (0.169"0	2.9mm (0.114")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")





Minimum order 10 pieces

Part No.	Product No.	Case	Value	Voltage	Tolerance	10	100
850161	TAJA105M016R-CT	A	1µF	16	20%	$.074	$.071
850371	TAJA225K010R ♠	A	2.2µF	10	10%	★	Call
850531	TAJA475M010R ♠	A	4.7µF	10	20%	★	Call
850494	TAJA475K016R ♠	A	4.7µF	16	10%	★	Call
850558	TAJA475M016R ♠	A	4.7µF	16	20%	★	Call
850523	TAJA475K020R ♠	A	4.7µF	20	10%	★	Call
850259	TAJA106M006R ♠	A	10µF	6.3	20%	★	Call
850224	TAJA106K016R-CT	A	10µF	16	10%	.34	.32

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
850347	TAJA106M016R ♠	A	10µF	16	20%	★	Call/Web
850460	TAJA226K010R ♠	A	22µF	22	10%	★	Call/Web
850646	TAJB105M035R ♠	B	1µF	35	20%	★	Call/Web
850873	TAJB225K020R ♠	B	2.2µF	20	10%	★	Call/Web
850902	TAJB225K025R ♠	B	2.2µF	25	10%	★	Call/Web
851104	TAJB475K010R ♠	B	4.7µF	10	10%	★	Call/Web
851198	TAJB475M010R ♠	B	4.7µF	10	20%	★	Call/Web
851227	TAJB475M016R ♠	B	4.7µF	16	20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

SMT Tantalum Chip Capacitors

Additional SMT Capacitors are available online at www.Jameco.com/Passives

AVX® TAJ Series 125°C Standard Tantalum Chip Capacitors (Continued)

LOWER PRICES

Minimum order 10 pieces

Part No.	Product No.	Case	Value	Voltage	Tolerance	10	100
850671	TAJB106K006R ♻ ♠	B	10µF	6.3	10%	★	Call
850734	TAJB106M006R ♻ ♠	B	10µF	6.3	20%	★	Call
850793	TAJB106M010R ♻ ♠	B	10µF	10	20%	★	Call
850849	TAJB106M020R ♻ ♠	B	10µF	20	20%	.422	.372
850961	TAJB226K006R ♻ ♠	B	22µF	6.3	10%	★	Call
850996	TAJB226K010R ♻ ♠	B	22µF	10	10%	★	Call
851024	TAJB226M010R ♻ ♠	B	22µF	10	20%	★	Call
851059	TAJB226M016R ♻ ♠	B	22µF	16	20%	★	Call
851243	TAJB476K006R ♻ ♠	B	47µF	6	10%	★	Call
851307	TAJB686K006R ♻ ♠	B	68µF	6.3	10%	★	Call
851340	TAJC105K050R ♻ ♠	C	1µF	50	10%	★	Call
851614	TAJC475K025R ♻ ♠	C	4.7µF	25	10%	★	Call
851631	TAJC475K035R ♻ ♠	C	4.7µF	35	10%	★	Call
851366	TAJC106K010R ♻ ♠	C	10µF	10	10%	★	Call
851382	TAJC106K025R-CT ♻	C	10µF	25	10%	.45	.39
851403	TAJC106M025R ♻ ♠	C	10µF	25	20%	★	Call
851489	TAJC226K010R ♻ ♠	C	22µF	10	10%	★	Call
851542	TAJC226M016R ♻ ♠	C	22µF	16	20%	★	Call
768360	TAJC226K025R ♻ ♠	C	22µF	25	10%	★	Call
851551	TAJC336K010R ♻ ♠	C	33µF	10	10%	★	Call
851577	TAJC336K016R ♻ ♠	C	33µF	16	10%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Price	
851673	TAJC476K010R ♻ ♠	C	47µF	10	10%	★	Call/Web
851420	TAJC107K006R ♻ ♠	C	100µF	6	10%	★	Call/Web
851446	TAJC107K010R ♻ ♠	C	100µF	10	10%	★	Call/Web
851876	TAJD225K050R ♻ ♠	D	2.2µF	50	10%	★	Call/Web
768458	TAJD685K035R ♻ ♠	D	6.8µF	35	10%	★	Call/Web
851702	TAJD106M025R ♻ ♠	D	10µF	25	20%	★	Call/Web
851711	TAJD106M035R ♻ ♠	D	10µF	35	20%	★	Call/Web
851850	TAJD156K025R ♻ ♠	D	15µF	25	10%	★	Call/Web
851892	TAJD226K016R ♻ ♠	D	22µF	16	10%	★	Call/Web
851930	TAJD226M016R ♻ ♠	D	22µF	16	20%	★	Call/Web
851956	TAJD226M020R ♻ ♠	D	22µF	20	20%	★	Call/Web
851999	TAJD336K016R ♻ ♠	D	33µF	16	10%	★	Call/Web
852035	TAJD336M016R ♻ ♠	D	33µF	16	20%	★	Call/Web
852078	TAJD476K010R ♻ ♠	D	47µF	10	10%	★	Call/Web
852131	TAJD476M010R ♻ ♠	D	47µF	10	20%	★	Call/Web
852140	TAJD476M016R ♻ ♠	D	47µF	16	20%	★	Call/Web
852094	TAJD476K020R ♻ ♠	D	47µF	20	10%	★	Call/Web
852182	TAJD686K016R ♻ ♠	D	68µF	16	10%	★	Call/Web
851753	TAJD107K010R ♻ ♠	D	100µF	10	10%	★	Call/Web
851770	TAJD107K016R ♻ ♠	D	100µF	16	10%	★	Call/Web
851833	TAJD107M016R ♻ ♠	D	100µF	16	20%	★	Call/Web
852203	TAJE107K016R ♻ ♠	E	100µF	16	10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

Resistors

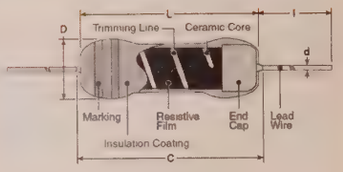
Additional Resistors are available online at www.Jameco.com/Passives

1/4-Watt Metal Film Leaded Resistors (±1%)

- Semi precision metal film resistors
- Suitable for automatic machine insertion
- Marking: blue/gray body color with color coded bands
- Size: (L) 0.248"; (C) 0.280"; (D) 0.091"; (d) 0.024"; (l) 1.18"



Pricing per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	5000
(see Resistor Values Chart below)	$.023	$.02	$.018	$.016



Part No.	Product No.	Ohms	Part No.	Product No.	Ohms	Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
1867685	MF1/4DCT52R10R0F ♠	10	1867773	MF1/4DCT52R1501F ♠	1.5k	1867706	MF1/4DCT52R1152F ♠	11.5k	1867642	MF1/4DCT52R1003F ♠	100k
1868151	MF1/4DCT52R33R2F ♠	33.2	1867853	MF1/4DCT52R1821F ♠	1.82k	1867781	MF1/4DCT52R1502F ♠	15k	1867669	MF1/4DCT52R1053F ♠	105k
1868282	MF1/4DCT52R47R5F ♠	47.5	1867896	MF1/4DCT52R2001F ♠	2k	1867802	MF1/4DCT52R1542F ♠	15.4k	1867714	MF1/4DCT52R1183F ♠	118k
1868451	MF1/4DCT52R68R1F ♠	68.1	1867968	MF1/4DCT52R2371F ♠	2.37k	1867837	MF1/4DCT52R1742F ♠	17.4k	1867722	MF1/4DCT52R1203F ♠	120k
1868493	MF1/4DCT52R82R5F ♠	82.5	1867992	MF1/4DCT52R2491F ♠	2.49k	1867861	MF1/4DCT52R1822F ♠	18.2k	1867731	MF1/4DCT52R1213F ♠	121k
1868506	MF1/4DCT52R90R9F ♠	90.9	1868063	MF1/4DCT52R2871F ♠	2.87k	1867888	MF1/4DCT52R1872F ♠	18.7k	1867749	MF1/4DCT52R1273F ♠	127k
1867618	MF1/4DCT52R1000F ♠	100	1868071	MF1/4DCT52R3011F ♠	3.01k	1867941	MF1/4DCT52R2212F ♠	22.1k	1867765	MF1/4DCT52R1331F ♠	133k
1867933	MF1/4DCT52R2210F ♠	221	1868119	MF1/4DCT52R3161F ♠	3.16k	1867976	MF1/4DCT52R2372F ♠	23.7k	1867790	MF1/4DCT52R1503F ♠	150k
1867950	MF1/4DCT52R2370F ♠	237	1868178	MF1/4DCT52R3481F ♠	3.48k	1868004	MF1/4DCT52R2492F ♠	24.9k	1867811	MF1/4DCT52R1623F ♠	162k
1867984	MF1/4DCT52R2490F ♠	249	1868215	MF1/4DCT52R3921F ♠	3.92k	1868039	MF1/4DCT52R2552F ♠	25.5k	1867829	MF1/4DCT52R1650F ♠	165k
1868021	MF1/4DCT52R2550F ♠	255	1868266	MF1/4DCT52R4751F ♠	4.75k	1868047	MF1/4DCT52R2672F ♠	26.7k	1867845	MF1/4DCT52R1743F ♠	174k
1868055	MF1/4DCT52R2740F ♠	274	1868291	MF1/4DCT52R4871F ♠	4.87k	1868080	MF1/4DCT52R3012F ♠	30.1k	1867917	MF1/4DCT52R2053F ♠	205k
1868098	MF1/4DCT52R3090F ♠	309	1868320	MF1/4DCT52R4991F ♠	4.99k	1868101	MF1/4DCT52R3092F ♠	30.9k	1867925	MF1/4DCT52R2153F ♠	215k
1868160	MF1/4DCT52R3480F ♠	348	1868338	MF1/4DCT52R5111F ♠	5.11k	1868135	MF1/4DCT52R3242F ♠	32.4k	1868012	MF1/4DCT52R2493F ♠	249k
1868207	MF1/4DCT52R3920F ♠	392	1868354	MF1/4DCT52R5491F ♠	5.49k	1868143	MF1/4DCT52R3322F ♠	33.2k	*1868127*	MF1/4DCT52R3163F ♠	316k
1868240	MF1/4DCT52R4530F ♠	453	1868371	MF1/4DCT52R5621F ♠	5.62k	1868186	MF1/4DCT52R3482F ♠	34.8k	1868231	MF1/4DCT52R4323F ♠	432k
1868311	MF1/4DCT52R4990F ♠	499	1868389	MF1/4DCT52R5761F ♠	5.76k	1868194	MF1/4DCT52R3742F ♠	37.4k	1868258	MF1/4DCT52R4533F ♠	453k
1868434	MF1/4DCT52R6810F ♠	681	1868400	MF1/4DCT52R6041F ♠	6.04k	1868223	MF1/4DCT52R4022F ♠	40.2k	1868303	MF1/4DCT52R4873F ♠	487k
1868469	MF1/4DCT52R7500F ♠	750	1868418	MF1/4DCT52R6191F ♠	6.19k	1868274	MF1/4DCT52R4752F ♠	47.5k	1868346	MF1/4DCT52R5363F ♠	536k
1868485	MF1/4DCT52R8250F ♠	825	1868426	MF1/4DCT52R6341F ♠	6.34k	1868362	MF1/4DCT52R5492F ♠	54.9k	1867651	MF1/4DCT52R1004F ♠	1M
1867626	MF1/4DCT52R1001F ♠	1k	1868477	MF1/4DCT52R7501F ♠	7.5k	1868397	MF1/4DCT52R5762F ♠	57.6k	1867870	MF1/4DCT52R1824F ♠	1.82M
1867693	MF1/4DCT52R1101F ♠	1.1k	1867634	MF1/4DCT52R1002F ♠	10k	1868442	MF1/4DCT52R6812F ♠	68.1k	1867909	MF1/4DCT52R2004F ♠	2M
1867757	MF1/4DCT52R1301F ♠	1.3k	1867677	MF1/4DCT52R1072F ♠	10.7k						

Over 99% of Our Catalog Products Are In Stock

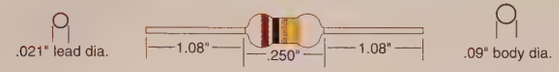
Place your order by 6PM EST for same business-day shipment.

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Resistors are available online at www.Jameco.com/Passives

1/4-Watt Carbon Film Resistors (±5%)



Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part no. adjacent to ohms in chart below.
Values may not be combined for quantity price breaks.

Pricing per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	5000
(see Standard Resistor Values Chart below)	$.01	$.009	$.008	$.007

Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing 1	10	25
10720	ASST8-R	—	5 ea. 70 values (350 pcs.) ≷ (every other value from 10Ω - 5.6 MΩ) ≷	$9.95	$8.95	$7.95
103166	ASST30-R	● ✖	10 ea. 24 values marked ● and 50 ea. 6 values marked ✖ (540 pcs.) ≷	12.95	11.49	9.95
10664	ASST27-R	▲	100 ea. 27 values marked (2,700 pcs.) ≷	24.95	22.49	20.49
81832	—	—	1/4-watt resistor cabinet kit 30 values, see pg 79 (540 pcs.)	31.59	28.19	25.41

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	2.2	690427	15	690620 ▲✖	100	690822 ▲●	680	691024 ▲✖	4.7k	691227 ▲●	33k	691420	220k	691622	1.5M
690224	2.4	690435	16	690638	110	690831	750	691032 ▲●	5.1k	691235	36k	691438	240k	691631	1.6M
690232	2.7	690443	18	690646	120	690849	820	691041 ▲●	5.6k	691243	39k	691446	270k	691892	1.8M
690241	3.0	690451	20	690654	130	690857	910	691059	6.2k	691251	43k	691454	300k	691649	2.0M
690259	3.3	690460	22	690662 ▲●	150	690865 ▲✖	1.0k	691067	6.8k	691260 ▲●	47k	691462	330k	691657	2.2M
690267	3.6	690478	24	690671	160	690873	1.1k	691075	7.5k	691278	51k	691471	360k	691665	2.4M
690275	3.9	690486	27	690689	180	690881 ●	1.2k	691083	8.2k	691286	56k	691489	390k	691673	2.7M
690283	4.3	690494	30	690697	200	690890	1.3k	691091	9.1k	691294	62k	691497	430k	691681	3.0M
690291	4.7	690507	33	690700 ▲✖	220	690902 ▲●	1.5k	691104 ▲✖	10k	691307	68k	691500 ▲●	470k	691690	3.3M
690304	5.1	690515	36	690718	240	690911	1.6k	691112	11k	691315	75k	691518	510k	691702	3.6M
690312	5.6	690523	39	690726 ▲●	270	690929	1.8k	691121	12k	691323	82k	691526	560k	691711	3.9M
690321	6.2	690531	43	690734	300	690937 ▲●	2.0k	691139	13k	691331	91k	691534	620k	691737	4.7M
690339	6.8	690540 ▲●	47	690742 ▲●	330	690945 ▲●	2.2k	691147 ▲●	15k	691340 ▲✖	100k	691542	680k	691745	5.1M
690347	7.5	690558	51	690751	360	690953	2.4k	691155	16k	691358	110k	691551	750k	691753	5.6M
690363	8.2	690566	56	690769 ●	390	690961 ▲●	2.7k	691163	18k	691366	120k	691569	820k	691761	6.2M
690371	9.1	690574	62	690777	430	690970	3.0k	691171 ●	20k	691374	130k	691577	910k	691770	6.8M
690380 ▲●	10	690582	68	690785 ▲●	470	690988 ▲●	3.3k	691180 ▲●	22k	691382	150k	691585 ▲●	1.0M	691788	7.5M
690398	11	690591	75	690793	510	690996	3.6k	691198	24k	691391	160k	691593	1.1M	691796	8.2M
690401	12	690603	82	690806	560	691008	3.9k	691201	27k	691403	180k	691606	1.2M	691809	9.1M
690419	13	690611	91	690814	620	691016	4.3k	691219	30k	691411	200k	691614	1.3M	691817 ▲●	10M

1/2-Watt Carbon Film Resistors (±5%)



Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.
Values may not be combined for quantity price breaks.

Pricing Per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	5000
(see Standard Resistor Values Chart below)	$.034	$.023	$.017	$.013

Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

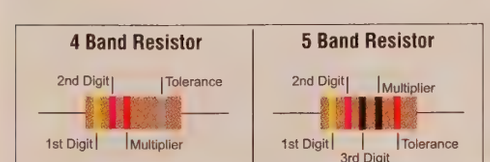
Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing 1	10
107853	ASST1230 ≷	✗ #	10 ea. of 24 values marked by ✗ and 50 ea. of 6 values marked by # (540 pcs.)	$15.69	$14.17
107845	ASST1227 ≷	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107837	ASST1270 ≷	—	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ)(350 pcs.) (see chart below)	10.95	9.95
107879	CAB12R	—	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 79	29.95	26.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	1.0	659817 ✓✗	10	661204	56	661343 ✓#	220	661474	750	661634 ✓✗	3.3k	661829	20k	662098	270k
659593	1.2	659833	12	661212	62	661351	240	661482	820	661651	3.9k	661837 ✓✗	22k	662119	330k
659614	1.5	659850	15	661221	68	661360 ✓✗	270	661503 ✓#	1.0k	661677 ✓#	4.7k	661853 ✗	27k	662135	390k
659631	1.8	659884	20	661239	75	661378	300	661520	1.2k	661685 ✓✗	5.1k	661870 ✓✗	33k	662151 ✓✗	470k
659657	2.2	659892	22	661247	82	661386 ✓✗	330	661546 ✓✗	1.5k	661693 ✓✗	5.6k	661917 ✓✗	47k	662194	680k
659673	2.7	661124	27	661255	91	661407 ✗	390	661554	1.6k	661714 ✗	6.8k	661933	56k	662231 ✓✗	1.0M
659737	4.7	661132	30	661263 ✓#	100	661423 ✓✗	470	661562	1.8k	661731	8.2k	661950	68k	662258	1.2M
659745	5.1	661141	33	661280	120	661431	510	661571 ✓✗	2.0k	661757 ✓#	10k	661976	82k	662311	2.2M
659770	6.8	661167	39	661301 ✓✗	150	661440	560	661589 ✓✗	2.2k	661773	12k	661992 ✓#	100k	662354	3.3M
659796	8.2	661183 ✓✗	47	661327	180	661458	620	661600 ✓✗	2.7k	661790 ✓✗	15k	662039	150k	662397	4.7M
659809	9.1	661191	51	661335	200	661466 ✓✗	680	661618	3.0k	661811	18k	662071	220k	662477 ✓✗	10M

(✓), (✗), (#) symbols indicate Resistor values included in Assortments above.

Resistor Color Code Chart



Band Color	Digit	Multiplier	Tolerance
Black	0	1	—
Brown	1	10	±1%
Red	2	100	±2%
Orange	3	1,000	±3%
Yellow	4	10,000	±4%
Green	5	100,000	—

Band Color	Digit	Multiplier	Tolerance
Blue	6	1,000,000	—
Violet	7	10,000,000	—
Gray	8	100,000,000	—
White	9	—	—
Gold	—	0.1	±5%
Silver	—	0.01	±10%
None	—	—	±20%

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

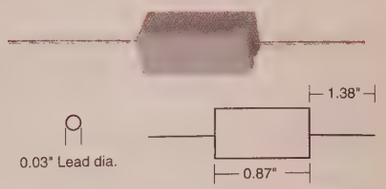
5-Watt Wirewound Resistors (5%)

Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

Pricing Per Resistor					
Specify Part No. & Resistor Value	1	10	100	500	1000
(see Standard Resistor Values Chart below)	$.39	$.294	$.236	$.212	$.189

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



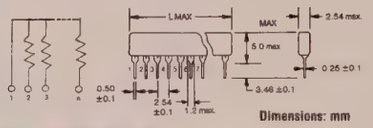
Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660041	0.47	660201	2.0	660359	8.2	660480	27	660631	120	660789	470	661010	4.7k
659964	0.15	660050	0.50	660244	3.0	660375	10	660498	30	660674	180	660797	500	661028	5.0k
659972	0.20	660092	0.68	660279	4.0	660412	15	660501	33	660682	200	660877	1.0k	661036	10k
659981	0.22	660130	1.0	660287	4.7	660447	20	660551	50	660746	330	660957	2.2k	661044	20k
660017	0.33	660172	1.5	660295	5.0	660455	22	660623	100	660762	390	660990	3.3k	661052	25k
660025	0.39	660199	1.8												

Single-In-Line "SIP" Resistor Networks (±2%)

8 and 10-Pin Bussed (125mW/Resistor) ±2%

Features (8BRN/10BRN):

- **8-pin package (7 resistors) = 8BRN**
  10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/ resistor
- Operating temperature range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.20" body ht.)
- Low profile is compatible with DIPs
- Cermet thick film construction



Dimensions: mm



Pricing per each			
1	10	100	1000
$.25	$.19	$.15	$.12
Pricing for P/N 97826			
$.24	$.18	$.14	$.11

Part No.	Pins	Ohms
97826	8	10k
97851	10	330
97869	10	470
97877	10	1.0k
97893	10	2.2k
24660	10	4.7k
24643	10	10k
98095	10	100k

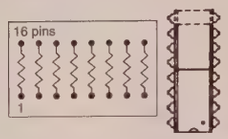
Dual-In-Line "DIP" Resistor Networks (±2%)

16-Pin Isolated (140mW/Resistor) ±2%



Features (16IRN):

- Tolerance: ±2%
- Max. operating voltage: 100V
- Temperature coefficient:±100ppm/°C
- Operating temp.:-55°C to +125°C
- Insulation res.: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Pricing per each			
1	10	100	1000
$.39	$.35	$.31	$.30

Part No.	Ohms
108556	100
108564	220
108572	330
108581	470
108599	1.0k
108610	4.7k
108628	10k

SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN...	770-81-R...	708A...	4608X-101...	CSC08A01...	L08-1-R...	356CF... X2PD	9S08... GL002
10BRN...	770-101-R...	710A...	4610X-101...	CSC10A01...	L10-1-R...	256CX ...X2PD	9S10... GL002
16IRN...	761-3-R...	316B...	4116R-001...	MDP16-03...	898-3-R...	916C... X5SR	D16H... 12-J

1/8-Watt Resistor Networks (±2%)

- 10-pin SIP
- Common circuit
- Operating temp.: -55°C to 125°C
- Max. working voltage: 100V



Part No.	Product No.	Value (Ω)	1	10	100	500
280583	266-22	22	$.26	$.234	$.187	$.14
280947	266-10k-RC ⊕	10k	.24	.23	.16	.14
281076	266-100k	100k	.31	.276	.192	.168

We're Listening to Your Requests

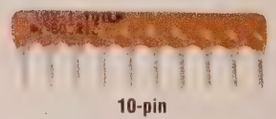
Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

Bourns® 4600 Series Conformal SIP Resistors

- Max. operating voltage: 100V
- Operating temp.: -55°C to 125°C
- Tolerance: 10Ω to 49Ω: ±1Ω; 50Ω to 5MΩ: ±2%
- Dielectric withstanding voltage: 200V_{RMS}
- UL94V-0 flammability rating
- Epoxy resin body

Quantity Save

LOWER PRICES


10-pin

4-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
772588	4604X-101-473♠	47k ..... ★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

5-Pin Bussed, Low Profile

Minimum order 10 pieces

Part No.	Product No.	Ohms	10	100
772668	4605X-101-681♠	680	$.177	$.155

6-Pin Bussed, Low Profile

Minimum order 10 pieces

Part No.	Product No.	Ohms	10	100
772705	4606X-101-472LF	4.7k	$.165	$.124
772684	4606X-101-223LF♠	22k	.165	.147

6-Pin Isolated, Low Profile

Minimum order 10 pieces

Part No.	Product No.	Ohms	10	100
1160111	4606X-102-103LF	10k	$.168	$.126
1160129	4606X-102-471LF	470	.168	.126
772836	4606X-102-333♠	33k ..... ★		Call/Web

★ Please call or visit our website for minimum order quantity and pricing

7-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
772908	4607X-101-103LF♠	10k ..... ★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

8-Pin Bussed, Low Profile

Minimum order 10 pieces

Part No.	Product No.	Ohms	10	100
772959	4608X-101-102LF♠	1k	$.206	$.186
772967	4608X-101-104LF	100k	.228	.171
773020	4608X-102-101LF	100	.228	.171
773062	4608X-102-121LF♠	120	.206	.186
773142	4608X-102-221LF	220	.228	.171
773265	4608X-102-471LF♠	470	.206	.186
858322	4608X-102-472	4.7k	.227	.17
773273	4608X-102-472LF♠	4.7k	.206	.186
773281	4608X-102-473LF♠	47k	.206	.186

10-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	1	10
773492	4610X-101-102LF	1k	$.32	$.233
773530	4610X-101-332LF	3.3k	.32	.24
773505	4610X-101-103LF	10k	.32	.233
1160399	4610X-101-562LF	5.6k	.34	.255
773513	4610X-101-223LF	22k	.32	.24
773548	4610X-101-473LF	47k	.32	.24

10-Pin Isolated, Low Profile

✳ Minimum order 10 pcs.

Part No.	Product No.	Ohms	1	10
773636	4610X-102-330♠	33	★	Call/Web
773695	4610X-102-560♠	56	★	Call/Web
773628	4610X-102-272♠	2.7k	✳	.283
858787	4610X-102-105	1M	.33	.309

★ Please call or visit our website for minimum order quantity and pricing

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com.

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

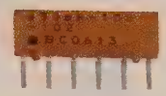
RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Molded SIP Resistors & Resistor Assortment

Additional Resistors are available online at www.Jameco.com/Passives

Bourns® 4300R Series Low-Profile Molded SIP Resistors

- Max. operating voltage: 100V
- Dielectric withstanding voltage: 200V_{RMS}
- Solder coated copper leads
- Tolerance: 2%
- Operating temp.: -55°C to 125°C
- UL94V-0 flammability rating
- Novolac epoxy body



6-pin

Quantity Save — LOWER PRICES

6-Pin Bussed, 0.75-Watt

Minimum order 5 pieces

Part No.	Product No.	Ohms	5	100
856600	4306R-101-102♠	1k	$.319	$.287
856669	4306R-101-332♠	3.3k	.34	.294
856685	4306R-101-472♠	4.7k	.34	.294
856634	4306R-101-103	10k	.34	.255

6-Pin Isolated, 0.75-Watt

Minimum order 5 pieces

Part No.	Product No.	Ohms	5	100
856731	4306R-102-103♠	10k	$.34	$.294

8-Pin Bussed, 1-Watt

Minimum order 5 pieces

Part No.	Product No.	Ohms	5	100
771868	4308R-101-221	220	$.388	$.291
856765	4308R-101-102	1k	.396	.297
856790	4308R-101-103	10k	.396	.297
771930	4308R-101-473♠	47k	.388	.304
856829	4308R-101-104♠	100k	.388	.333

8-Pin Isolated, 1-Watt

Minimum order 5 pieces

Part No.	Product No.	Ohms	5	100
771964	4308R-102-101	100	$.388	$.291
771999	4308R-102-121♠	120	.388	.333
772035	4308R-102-181♠	180	.388	.304
857021	4308R-102-471♠	470	.388	.304
856870	4308R-102-102♠	1k	.367	.304
857055	4308R-102-472♠	4.7k	.388	.304
856909	4308R-102-103♠	10k	.385	.334

9-Pin Bussed, 1.13-Watt

Part No.	Product No.	Ohms	1	5	100
857080	4309R-101-103	10k	$.54	$.465	$.461

10-Pin Bussed, 1.25-Watt

LOWER PRICES

Part No.	Product No.	Ohms	1	5	100
772342	4310R-101-391	390	$.56	$.46	$.345
857354	4310R-101-471	470	.55	.465	.349
857135	4310R-101-102♠	1k	.52	.437	.394
857320	4310R-101-332♠	3.3k	.52	.359	.329
857389	4310R-101-472♠	4.7k	.51	.437	.394
772377	4310R-101-472LF♠	4.7k	.53	.446	.402
857160	4310R-101-103	10k	.55	.465	.349
772238	4310R-101-103LF♠	10k	.53	.446	.402
857418	4310R-101-473♠	47k	.52	.436	.394
857215	4310R-101-104♠	100k	.52	.436	.394

10-Pin Isolated, 1.25-Watt

Part No.	Product No.	Ohms	1	5	100
772431	4310R-102-102♠	1k	$.55	$.466	$.402
857506	4310R-102-104	100k	.55	.466	.402

Our enhanced website offers thousands of additional products.
Find products quickly and order them easily.

0805 Chip Resistor Assortment (±5%)

144 Values, 50 pcs. each; 7,200 pcs. Total



- Max. overload voltage: 200V
- 1/8 Watt
- Weight: 1.9 lbs.
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: -50°C to 120°C
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

Part No.	Cross Ref. No.	1	10	25
172806	16-500 ⊕	$79.95	$71.95	$64.79

Resistance Value Chart:

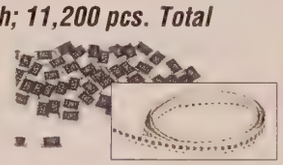
1.2	10	75	430	2.0k	10k	51k	270k	2.2M	
1.6	16	85	470	2.2k	11k	56k	300k	2.4M	
2.2	18	91	510	2.4k	12k	62k	360k	2.7M	
2.4	20	110	560	2.7k	13k	68k	390k	3.0M	
2.7	22	120	620	3.0k	15k	75k	430k	3.3M	
3.0	24	130	680	3.3k	16k	82k	470k	3.6M	
3.3	27	150	750	3.6k	18k	91k	510k	3.9M	
4.3	30	160	820	3.9k	20k	100k	560k	4.3M	
4.7	33	180	910	4.3k	22k	110k	620k	4.7M	
5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M	
5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M	
6.2	47	240	1.2k	6.2k	30k	160k	910k	6.8M	
6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M	
7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M	
8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M	
9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M	

1206 Chip Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total

- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H

LOWER PRICES



Packaged in strips of 200 pcs. each

Part No.	Cross Ref. No.	1	10	25
156882	SMR1206SB	$99.99	$84.99	$66.21

Value Chart (Ohms)

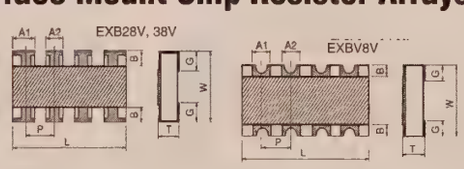
10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

SMT Resistor Arrays & Chip Resistors

Panasonic®

Surface Mount Chip Resistor Arrays

- High density
- Improvement of placement efficiency
- 4 resistors in 2mm x 1mm (EXB28V)
- 4 resistors in 3.2mm x 1.6mm (EXB38V, V8V)



Improvement of Placement Efficiency

Type	Dimensions in mm L	W	T	A1	A2	B	P	G
Convex Terminal Type								
EXB28V (0402 x 4)	2.0	1.0	0.35	0.45	0.35	0.20	(0.50)	0.25
EXB38V (0603 x 4)	3.2	1.6	0.50	0.65	0.45	0.30	(0.80)	0.35
Concave Terminal Type								
EXBV8V (0603 x 4)	3.2	1.6	0.60	0.60	0.60	0.30	(0.80)	0.45

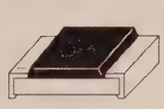
Minimum order 10 pieces

Part No.	Product No.	Case Type	Value (Ω)	No. of Resistors	Tolerance	Pricing 10	100
922890	EXB-28V330JX♠	0402	33	4	5%	★	Call/Web
865223	EXB-28V331JX	0402	330	4	5%	.097	.073
922865	EXB-28V103JX♠	0402	10k	4	5%	★	Call/Web
923075	EXB-38V103JV♠	0603	10k	4	5%	★	Call/Web
923155	EXB-V8V103JV♠	0603	10k	4	5%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

Bourns® Chip Resistors

- Operating temp.: -55°C to 125°C



Case Size	Power Rating @ 70°C	Max. Working Volt.	Max. Overload Volt.
0402	1/16W	25V	50V
0603	1/10W	50V	100V
0805	1/8W	100V	200V
1206	1/4W	200V	400V

5% Tolerance, ±200ppm/°C

Minimum order 50 pieces

Part No.	Product No.	Case Type	Value (Ω)	Pricing 50	500
774760	CR0402-JW-103GLF	0402	10K	$.02	$.015
775527	CR0805-JW-103ELF	0805	10K	.02	.015

1% Tolerance ±100ppm/°C

Minimum order 50 pieces

Part No.	Product No.	Case Type	Value (Ω)	Pricing 50	500
774516	CR0402-FX-10R0GLF	0402	10	$.017	$.014
774508	CR0402-FX-1000GLF	0402	100	.045	.04
775084	CR0603-FX-75R0ELF	0603	75	.01	.009
775404	CR0805-FX-1243ELF	0805	124K	.013	.012
775789	CR1206-FX-3010ELF	1206	301	.015	.014
775973	CR1206-FX-6810ELF	1206	681	.015	.014
775623	CR1206-FX-1241ELF	1206	1.24K	.015	.014

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Linear Taper Potentiometers

Color Code Legend: New Sale Lower$ QtySave

Additional Potentiometers are available online at www.Jameco.com/Passives

1/8-Watt 16mm Linear Taper



- Shaft length: 0.531" • Rated volt.: 200V
- Shaft diameter: 0.25"
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Tolerance: <1MΩ (±20%); 1MΩ (±30%)
- Dielectric strength: 500VAC for 1 minute

Qty.	1	10	100	500
Price	$1.35	$1.13	$1.02	$.83

Part No.	Product No.	Ohms
286206	RV16AF-10-20R1-B14 ≷	10k

1/5-Watt 16mm Linear Taper



- Shaft length: 0.335"
- Shaft diameter: 0.25"
- Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Rated voltage: 200V
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute

Qty.	1	10	100	500
Price	$1.35	$1.13	$1.04	$.95

Part No.	Product No.	Ohms
286249	RV16AF-10-15R1-B13 ≷	1k
286265	RV16AF-10-15R1-B53 ≷	5k
286273	RV16AF-10-15R1-B14 ≷	10k
286302	RV16AF-10-15R1-B15 ≷	100k
286337	RV16AF-10-15R1-B16 ≷	1M

1/4-Watt 24mm Audio Taper (±20%)



- Shaft length: 0.335"
- Shaft diameter: 0.25"
- Maximum voltage: 250V
- Terminal type: solder lugs
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC

Qty.	1	10	100	500
Price	$1.35	$1.09	$.99	$.89

Part No.	Product No.	Ohms
255426	RV24AF-10-15R1-A14 ≷	10k
255442	RV24AF-10-15R1-A15 ≷	100k
255451	RV24AF-10-15R1-A55 ≷	500k

1/2-Watt 24mm Linear Taper with SPST Switch (±20%)



- Shaft length: 0.335"
- Shaft diameter: 0.25"
- Terminal type: solder lugs
- Maximum voltage: 500V
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)

Qty.	1	10	100	500
Price	$2.49	$2.08	$1.90	$1.71

Part No.	Product No.	Ohms
263792	RV24A01F-10-15R1-B14 ≷	10k

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

1/2-Watt 24mm Linear Taper (±20%)



255477 264373 255611

- Rotational angle: 300° (±5°) • Max. voltage: 500V
- Withstanding voltage for 1 minute: 500VAC

0.335"L shaft; solder lugs

Qty.	1	10	100	500
Price	$1.35	$1.09	$.99	$.89

Part No.	Product No.	Ohms
255477	RV24AF-10-15R1-B52 ≷	500
255485	RV24AF-10-15R1-B13 ≷	1k
255493	RV24AF-10-15R1-B23 ≷	2k
255514	RV24AF-10-15R1-B53 ≷	5k
255522	RV24AF-10-15R1-B14 ≷	10k
255531	RV24AF-10-15R1-BF4 ≷	25k
255549	RV24AF-10-15R1-B54 ≷	50k
255557	RV24AF-10-15R1-B15 ≷	100k
255565	RV24AF-10-15R1-BF5 ≷	250k
255572	RV24A-10-15R1-B55	500k
255582	RV24AF-10-15R1-B16 ≷	1M
255600	RV24AF-10-15R1-B26 ≷	2M

0.531"L knurled shaft; solder lugs

Qty.	1	10	100	500
Price	$1.35	$1.09	$.99	$.89

Part No.	Product No.	Ohms
264373	RV24AF-10-20K-B52 ≷	500
264382	RV24AF-10-20K-B13 ≷	1k
264400	RV24AF-10-20K-B23 ≷	2k
264401	RV24A-10-20K-B53	5k
264411	RV24AF-10-20K-B14 ≷	10k
264428	RV24A-10-20K-B54	50k
264437	RV24AF-10-200K-B15 ≷	100k
264445	RV24AF-10-20K-BF5 ≷	250k
264453	RV24AF-10-20K-B55 ≷	500k
264462	RV24AF-10-20K-B16 ≷	1M
264480	RV24AF-10-20K-B26 ≷	2M

1.32"L shaft; solder lugs

Qty.	1	10	100	500
Price	$1.35	$1.09	$.99	$.89

Part No.	Product No.	Ohms
255611	RV24AF-10-40R1-B52 ≷	500
255628	RV24A-10-40R1-B13	1k
255645	RV24AF-10-40R1-BF3 ≷	2.5k
255653	RV24AF-10-40R1-B53 ≷	5k
255662	RV24AF-10-40R1-B14 ≷	10k
255688	RV24AF-10-40R1-B54 ≷	50k
255696	RV24AF-10-40R1-B15 ≷	100k
255709	RV24AF-10-40R1-BF5 ≷	250k
255717	RV24AF-10-40R1-B55 ≷	500k
255725	RV24AF-10-40R1-B16 ≷	1M
255733	RV24AF-10-40R1-B56 ≷	5M

Bourns® 12mm Incremental Encoder



- Contact rating: 1mA @ 5VDC
- RPM (operating): 100 max.
- Closed circuit resistance: 3Ω max.
- Output: 2-bit gray code
- Switch type: contact push ON momentary SPST
- PC horizontal/rear facing, 24 detents, 25mm shaft length, insulated shaft, 24 pulses per 360° rotation

Part No.	Product No.	1	10	100
776386	PEC12-4225F-N0024 ≷	$.92	$.71	$.64

1/2-Watt Linear Taper (±10%)



- Temperature range:-55°C to +125°C
- Non-rotational key, Non-slotted shaft end
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft dia.: 0.25" • Shaft length: 0.50"

Includes: Mounting hardware

Qty.	1	10	100	500
Price	$.99	$.89	$.71	$.533

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
29050	P1K ≷	1k	29103	P100K ≷	100k
29197	P5K ≷	5k	29066	P1MEG ≷	1M
29082	P10K ≷	10k			

Honeywell 2-Watt Linear Taper (±10%)



RV4N Series

- 2W @ 70°C ambient
- Temp. range: -55°C to +120°C
- Non-rotational key
- Mounting hole: 0.375"
- Maximum panel thickness: 0.25"
- Shaft diameter: 0.25" • Shaft length: 0.875"

Includes: Mounting hardware

Qty.	1	10	25	50
Price	$8.89	$7.85	$6.54	$6.24

Part No.	Product No.	Military No.	Ohms
241568	53C3-100	RV4NAYSD101A	100
241584	53C3-250	RV4NAYSD251A	250
183610	53C3-500	RV4NAYSD501A	500
13936	53C3-1k	RV4NAYSD102A	1k
241613	53C3-2k	RV4NAYSD202A	2k
241621	53C3-2.5k	RV4NAYSD252A	2.5k
13995	53C3-5k	RV4NAYSD502A	5k
13952	53C3-10k	RV4NAYSD103A	10k
241656	53C3-20k	RV4NAYSD203A	20k
241664	53C3-25k	RV4NAYSD253A	25k
95417	53C3-50k	RV4NAYSD503A	50k
13979	53C3-100k	RV4NAYSD104A	100k
241681	53C3-250k	RV4NAYSD254A	250k
241728	53C3-1M	RV4NAYSD105A	1M

2-Watt Linear Taper Wirewound (±20%)



- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key
- Length: 0.825" • Base length: 0.25"

JAMECO EXCLUSIVE

Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	100	500
123960	PT1K ≷	1k ...	$4.09	$3.69	$3.12	($2.35)
123967	PT5K ⊕	5k	3.29	2.93	2.64	2.38

5-Watt Linear Taper Wirewound (±20%)



- Temp. range: -10°C to 70°C
- Shaft diameter: 0.23" (6mm)
- Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"
- Shaft length: 0.67"

JAMECO EXCLUSIVE

Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	50	100
140514	PW5B100 ≷	100	$2.79	$2.51	$2.00	($1.51)

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Potentiometers are available online at www.Jameco.com/Passives

Bourns® 2-Watt 10-Turn Wirewound (±5%)

- Insulation resistance: (500VDC) 1000MΩ min.
- Absolute min. resistance: 1Ω or 0.1% maximum
- Power rating: **3540 Series**: 2W @ 70°C; **3590 Series**: 2W @ 40°C
- Operating temp. range: +1°C to +125°C



3540S –1 Series, Metal Bushing

Part No.	Product No.	Ohms	1	10	50
183548	3540S-1-502	5k	$13.25	$12.14	$11.24
183521	3540S-1-103	10k	12.99	12.79	12.59

3590S –1 Series, Plastic Bushing

Part No.	Product No.	Ohms	1	10	100
771112	3590S-1-102≷	1k	$9.89	$8.93	$8.63
771121	3590S-1-103≷	10k	9.89	8.93	8.63
771147	3590S-1-203≷ ♠	20k	9.85	9.24	8.63
771139	3590S-1-104L≷	100k ..	12.85	11.56	11.18

3590S –2 Series, Metal Bushing

Part No.	Product No.	Ohms	1	5	100
855818	3590S-2-502≷	5k	$9.85	$9.24	$8.63
771155	3590S-2-103≷	10k	9.85	9.24	8.63
771163	3590S-2-203≷	20k	9.85	9.24	8.63

Bourns® 1/2-Watt, 3/8" Round, Open-Frame Trimming Potentiometer (±20%)

3352W Series — Side Adjustment

- Resistance tolerance: ±20%
- Absolute min. resistance: 2Ω max.
- Adjustment angle: 205° nominal
- Power rating: 0.25W @ 85°C
- Temperature range: -55°C to 125°C
- Thumb & screwdriver adjust.



Part No.	Product No.	Ohms	1	10	100
770347	3352W-1-103	10k ...	$1.17	$1.06	$.90

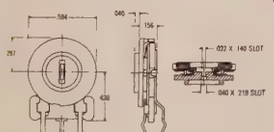
1/4-Watt Miniature Linear (±20%)

X201 (19/32") Vertical Mount

- 15mm thick • Volt. rating: 350VDC
- Power rating: below 5kΩ – 1/4 watt @ 40°C; 5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°

JAMECO EXCLUSIVE





Cross Ref. Chart

Equivalent to:	
CTS	X201R
Bourns	3355X
PIHER	PT15

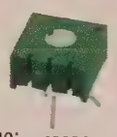
Part No.	Cross Ref. No.	Ohms	1	10	100	500
94714	X201R10K≷	10k ...	$.49	$.406	$.364	$.302
94722	X201R50K≷	50k	.45	.395	.355	.294
94731	X201R100K≷	100k ...	.55	.437	.393	.325

Committed to You

We're committed to providing you with the best service in the industry.

1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PC pins: 0.100" grid (2.54mm)
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants
- Pin spacing: 0.1" († P/N 43060: 0.2")



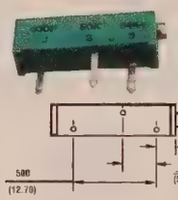
Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mepcopal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

Qty.	1	10	100	500
Price	$.78	$.69	$.61	$.443

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
43123	63P500	500	43107	63P50K	50k
42964	63P1K	1k	43027	63P100K	100k
43043	63P2K	2k	43060	63P300K†	300k
43078	63P5K	5k	63212	63P500K	500k
43001	63P10K	10k	42981	63P1MEG	1M
43051	63P20K	20k			

3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)



Cross Ref. Chart

Equivalent to:	
Allen Bradley	94P
Beckman	89PR
Bourns	3006P
Litton	6034Y
Mepcopal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P

- PC pins: 0.100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

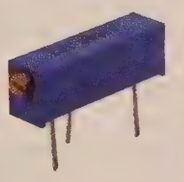
Qty.	1	10	100	500
Price	$1.05	$.99	$.89	$.75

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
41785	43P1K	1k	41873	43P20K	20k
41865	43P2K	2k	41911	43P50K	50k
41890	43P5K	5k	41849	43P100K	100k
41822	43P10K	10k	41806	43P1MEG	1M

Bourns® 3/4-Watt, 3/4" Rectangular, Multi-Turn Cermet Trimming Side Adjustment (±10%)

3006P Series – 3/4W, Y Layout Solder Pins

- Resistance tolerance: ±10%
- 15 turns nominal
- Insulation resistance: (500VDC) 1,000MΩ min.
- Contact resistance variation: 1% or 1Ω max.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.75W @ 70°C (400V max.)



Qty.	1	10	50	100
Price	$1.55	$1.36	$1.26	$1.19

Part No.	Product No.	Ohms
768790	3006P-1-202LF≷ ♠	2k
768773	3006P-1-103LF≷	10k
768802	3006P-1-253≷	25k

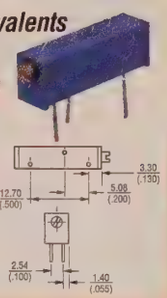
3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Trimming Side Adjustment (±10%)

Bourns 3006P Series Value Equivalents

- Low PC board profile
- Temperature range: -55°C to 125°C
- Absolute minimum resistance: 1% or 2Ω
- Contact resistance variation: 1% or 1Ω maximum
- Power rating: 0.75W @ 70°C (400V maximum)

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LOWER PRICES



Qty.	1	10	50	100
Price	$1.05	$.98	$.84	$.71

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
241234	3006P-101 ⊕	100	241294	3006P-103 ≷	10k
241252	3006P-501 ≷	500	241307	3006P-203 ≷	20k
241270	3006P-102 ≷	1k	241323	3006P-503 ≷	50k
241278	3006P-202 ≷	2k	241332	3006P-104 ≷	100k
241286	3006P-502 ≷	5k	241374	3006P-105 ≷	1M

Bourns® 1/4" Square, Multi-Turn Trimming Side Adjustment (±10%)

- Resistance tolerance: ±10%
- Y-layout solder pins
- Sealed cermet
- 12 turns nominal
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 70°C (300V max.)
- Insulation resistance (500VDC): 1,000MΩ min.
- Contact resistance variation: 3% or 3Ω max.



3266P Series

Part No.	Product No.	Ohms	1	10	100
769098	3266P-1-103≷	10k ..	$3.19	$2.79	$2.63

3266W Series

Part No.	Product No.	Ohms	1	10	100
769178	3266W-1-501LF≷ ♠	500 ..	$2.99	$2.57	$2.24
769151	3266W-1-253≷ ♠	25k	2.85	2.34	2.24

1/4-Watt, 1/4" Square Trimming Potentiometers, Top Adjustment (±10%)

Bourns 3266W Series Value Equivalents

- Resistance tolerance: ±10%
- 12 turns nominal
- Insulation resistance: (500VDC) 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max. (whichever is greater)
- Contact resistance variation: 3% or 3Ω max. (whichever is greater)
- Power rating: 0.25W @ 70°C (300V max.)

JAMECO EXCLUSIVE



Qty.	1	10	50	100
Price	$2.45	$2.12	$2.03	$1.92

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254626	3266W-201 ≷	200	254684	3266W-203 ⊕	20k
254642	3266W-102 ≷	1k	254706	3266W-503 ≷	50k
254651	3266W-202 ≷	2k	254714	3266W-104 ≷	100k
254669	3266W-502 ≷	5k	254749	3266W-105 ≷	1M
254677	3266W-103 ≷	10k			

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Multi-Turn Trimming Potentiometers

Color Code Legend: New Sale Lower$ QtySave

Additional Potentiometers are available online at www.Jameco.com/Passives

Bourns® 1/2-Watt, 1/4" Square, Trimming Pots (±10%)

- Resistance tolerance: ±10%
- Absolute min. res.: 1% or 2Ω
- Adjustment angle: 240° nominal
- Insulation res. (500VDC): 1,000MΩ min.
- Power rating: 0.5W @ 70°C
- Temperature range: -55°C to 125°C



3362H Series — Top Adjustment, Y-Layout

Part No.	Product No.	Ohms	1	10	100
770371	3362H-1-103	10k	$.82	$.69	$.64

3362P Series — Top Adjust, Y-Layout

Part No.	Product No.	Ohms	1	10	100
854663	3362P-1-102	1k	$.81	$.66	$.59
854698	3362P-1-202	2k	.82	.69	.64
770435	3362P-1-203	20k	.81	.68	.60
854727	3362P-1-503	50k	.81	.68	.57

3362R Series — Top Adjust, Rev. Y-Layout

Part No.	Product No.	Ohms	1	10	100
770451	3362R-1-103	10k	$.81	$.69	$.64

3362W Series — Side Adjust, Rev. Y-Layout

Part No.	Product No.	Ohms	1	10	100
770566	3362W-1-103	10k	$.82	$.69	$.64

1/2-Watt Trimming Pots (±10%)

3362P Series — Linear Taper



- Terminals: solderable pins
- Rotational life: 200 cycles
- Wiper positioning: 50% nominal
- Top adjustment: 240° nominal
- Insulation resistance: 500VDC 1,000MΩ min.
- Absolute minimum resistance: 1% or 2Ω max.
- Contact resistance variation: 1% or 3Ω maximum

Cross Reference Chart

Equivalent to:		Equivalent to:	
Bourns	3362P	Murata	PVC6
Copal	CT-6P	Vishay	76

Qty.	1	10	100	500
Price	$.69	$.62	$.47	$.42

Part No.	Cross Ref. No.	Ohms
182810	3362P-501 ⊕	500
182837	3362P-103	10k

Pocket Trimmer Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2"L



Part No.	Description	1	10	100
153315	Trimmer tool	$1.35	$1.23	$.92
776108	Adjustment tool	1.49	1.37	1.26

Bourns® 1/4-Watt, 4mm Square SMD, Trimming Pots (±10%)

3314 Series



- Top adjust. straight slot
- Adjustment angle: 210°
- End resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 70°C
- Insulation resistance: (500VDC) 100MΩ min.
- Contact resistance variation: 3% or 3Ω max.

Part No.	Product No.	Ohms	1	10	100
854330	3314J-1-502E	5K	$1.38	$1.29	$1.21
854284	3314G-1-103E	10K	1.19	1.06	1.04

Free Technical Support

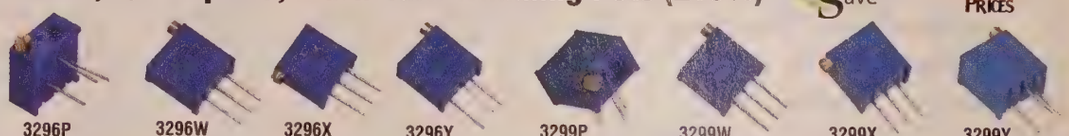
Our knowledgeable Tech Support department is ready to answer your questions. Just call us!

1-800-831-4242

Bourns® 1/2-Watt, 3/8" Square, Multi-Turn Trimming Pots (±10%)

Quantity Save — LOWER PRICES

- 25 turns nominal
- Resistance tolerance: ±10%
- Power rating: 0.5W @ 70°C (300V max.)
- Temperature range: -55°C to 150°C
- Absolute min. resistance: 1% or 2Ω max.
- Insulation resistance (500VDC): 1,000MΩ min.



3296P — Side Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
769311	3296P-1-104	100k	$2.49	$2.29	$1.99

3296W — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
853530	3296W-1-101	100	$2.19	$1.73	$1.30
853636	3296W-1-201 ♠	200	2.15	1.72	1.55
853759	3296W-1-501	500	2.05	1.66	1.25
769469	3296W-1-501LF ♠	500	1.99	1.63	1.54
853556	3296W-1-102	1k	2.05	1.89	1.73
769389	3296W-1-102LF	1k	1.99	1.63	1.54
853652	3296W-1-202	2k	2.19	1.94	1.73
769426	3296W-1-202LF ♠	2k	1.99	1.62	1.54
853775	3296W-1-502	5k	2.05	1.83	1.74
769477	3296W-1-502LF	5k	2.05	1.74	1.31
853572	3296W-1-103	10k	2.05	1.83	1.74
769397	3296W-1-103LF	10k	1.99	1.62	1.54
853679	3296W-1-203	20k	2.05	1.66	1.25
769434	3296W-1-203LF	20k	2.05	1.65	1.24
853791	3296W-1-503	50k	2.05	1.88	1.73
769485	3296W-1-503LF	50k	1.65	1.43	1.34
853599	3296W-1-104	100k	2.05	1.65	1.59
769400	3296W-1-104LF ♠	100k	1.99	1.64	1.45
853695	3296W-1-204	200k	2.19	1.98	1.73
853812	3296W-1-504	500k	2.05	1.89	1.73
769493	3296W-1-504LF	500k	2.05	1.89	1.73
853610	3296W-1-105 ♠	1M	2.05	1.66	1.25

For additional Bourns® Pots visit our website, www.Jameco.com.

3296X — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
853960	3296X-1-501	500	$2.19	$1.94	$1.73
853935	3296X-1-202 ♠	2k	2.15	1.72	1.55
769549	3296X-1-202LF ♠	2k	1.99	1.62	1.54
853986	3296X-1-502 ♠	5k	2.15	1.72	1.55
853871	3296X-1-103	10k	2.19	1.93	1.73
769522	3296X-1-103LF ♠	10k	1.99	1.62	1.54
853951	3296X-1-203 ♠	20k	2.15	1.72	1.55
853898	3296X-1-104 ♠	100k	2.15	1.72	1.55

3296Y — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	50
240389	3296Y-1-501	500	$2.19	$2.03	$1.52
240397	3296Y-1-102	1k	2.19	1.98	1.48
1156947	3296Y-1-102LF ♠	1k	1.65	1.42	1.34
1156971	3296Y-1-202LF ♠	2k	1.65	1.42	1.34
240418	3296Y-1-502	5k	2.39	2.22	2.00
769581	3296Y-1-502LF	5k	2.05	1.66	1.25
240426	3296Y-1-103	10k	1.99	1.85	1.66
1156955	3296Y-1-103LF	10k	2.05	1.65	1.24
240434	3296Y-1-203	20k	2.09	1.78	1.33
1156998	3296Y-1-203LF ♠	20k	1.65	1.42	1.34
240451	3296Y-1-503	50k	2.39	2.22	2.00
1157018	3296Y-1-503LF ♠	50k	1.65	1.42	1.34
240469	3296Y-104	100k	1.99	1.85	1.66

3299P — Side Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
854145	3299P-1-502 ♠	5k	$2.75	$2.23	$1.97
854102	3299P-1-103 ♠	10k	2.79	2.25	2.16
769688	3299P-1-503	50k	2.45	2.27	2.16

3299W — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	50
238553	3299W-1-100	10	$2.39	$2.25	$1.99
183556	3299W-1-102	1k	2.39	2.25	1.99
1157149	3299W-1-102LF ♠	1k	2.65	2.37	1.79
238617	3299W-1-202	2k	3.45	2.36	1.77
1157181	3299W-1-202LF ♠	2k	2.65	2.37	1.79
238625	3299W-1-502	5k	2.89	2.64	1.98
769725	3299W-1-502LF ♠	5k	2.59	2.08	1.83
183564	3299W-1-103	10k	2.39	2.25	1.99
769696	3299W-1-103LF ♠	10k	2.59	2.08	1.83
238633	3299W-1-203	20k	2.39	2.25	1.99
769717	3299W-1-203LF ♠	20k	2.59	2.08	1.83
238650	3299W-1-503	50k	2.39	2.25	1.99
1157237	3299W-1-503LF ♠	50k	2.65	2.37	1.79
183572	3299W-1-104	100k	2.89	2.68	2.23
769709	3299W-1-104LF ♠	100k	2.59	2.59	2.08
854161	3299W-1-204 ♠	200k	2.59	2.07	1.83
1157190	3299W-1-204LF ♠	200k	2.65	2.37	1.79
238676	3299W-1-504	500k	3.45	3.19	2.09
238684	3299W-1-105	1M	2.95	2.67	2.32
1157165	3299W-1-105LF ♠	1M	2.65	2.28	2.14

3299X — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
854188	3299X-1-102 ♠	1k	$2.59	$2.08	$1.83
854225	3299X-1-202 ♠	2k	2.59	2.08	1.83
854209	3299X-1-103 ♠	10k	2.59	2.08	1.83

3299Y — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
240590	3299Y-1-502	5k	$2.59	$2.09	$1.56
240602	3299Y-1-103	10k	2.89	1.96	1.47

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Potentiometers are available online at www.Jameco.com/Passives

Bourns® 1/2-Watt, 3/8" Square, Trimming Pots (±10%)

- Insulation resistance (500VDC): 1,000MΩ min.
- Resistance tolerance: ±10%
- Absolute min. resistance: 2Ω max.
- Adjustment angle: 280° nominal
- Power rating: 0.5W @ 85°C (300V max.)
- Temp. range: -55°C to 125°C



3386F — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
854858	3386F-1-103ℛ	10k	$1.26	$.98	$.90
854920	3386F-1-104ℛ♠	100k	1.06	.93	.81
770726	3386F-1-504ℛ♠	500k	1.08	.96	.81

3386H — Side Adjust, Rev. Y-Layout Pins

Part No.	Product No.	Ohms	1	10	100
770793	3386H-1-502ℛ♠	5k	$1.22	$.97	$.81
770734	3386H-1-103ℛ	10k	1.21	1.09	.90

3386W — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
855631	3386W-1-103ℛ	10k	$1.10	$.97	$.90

3386P — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
855164	3386P-1-101ℛ	100	$1.21	$1.06	$.90
855480	3386P-1-501	500	1.10	.97	.90
855199	3386P-1-102ℛ	1k	1.09	.95	.82
855341	3386P-1-202ℛ	2k	1.09	.94	.89
855519	3386P-1-502ℛ	5k	1.10	.98	.90
855228	3386P-1-103	10k	1.10	.97	.90
770806	3386P-1-103LFℛ	10k	1.08	.96	.81
855404	3386P-1-203♠	20k	1.25	.97	.81
770831	3386P-1-203LFℛ♠	20k	1.08	.84	.81
855455	3386P-1-253ℛ	25k	1.15	1.01	.95
855244	3386P-1-104ℛ	100k	1.10	.97	.90
855578	3386P-1-504ℛ	500k	1.09	.95	.82

3386X — Side Adjust, Rev. Y-Layout Pins

Part No.	Product No.	Ohms	1	10	100
855682	3386X-1-102ℛ♠	1k	$1.06	$.94	$.81
855797	3386X-1-502ℛ♠	5k	1.25	.97	.81
855711	3386X-1-103ℛ	10k	1.09	.97	.90

1/2-Watt, 1/4" Round, Cermet Pots (±10%)

Bourns 3329P Series Value Equivalents

- TO-5 grid • Top adjustment
- Terminals: solderable pins
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temp. range: -55°C to +150°C

JAMECO EXCLUSIVE



Qty.	1	10	50	100
Price	$1.89	$1.70	$1.36	$1.02

Part No.	Cross Ref. No.	Ohms
254530	3329P-103 ℛ	10k
254538	3329P-203 ℛ	20k
254562	3329P-104 ℛ	100k

Bourns® 0.2-Watt, 6mm Round Trimming Pots (±25%)

3306P Series — Top Adjust, Y-Layout Pins



- Resistance tolerance: ±25%
- Absolute min. resistance: 2% max.
- Adjustment angle: 215° nominal
- Power rating: 0.2W @ 70°C
- Temperature range: -25°C to 100°C

Part No.	Product No.	Ohms	1	5	100
769944	3306P-1-103ℛ	10k	$.54	$.417	$.382

Bourns® 1/2-Watt, 1/4" Round, Trimming Pots (±10%)



- Resistance tolerance: ±10%
- Absolute min. res.: 1% or 2Ω
- Adjustment angle: 240° nominal
- Power rating: 0.5W @ 80°C
- Temperature range: -55°C to 150°C
- Insulation res. (500VDC): 1,000MΩ min.

3329H Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	100
854508	3329H-1-501ℛ♠	500	$2.19	$1.92	$1.64
854356	3329H-1-102ℛ♠	1k	2.19	1.92	1.64
854532	3329H-1-502ℛ♠	5k	2.19	1.92	1.64
854372	3329H-1-103ℛ♠	10k	2.35	2.04	1.92
854487	3329H-1-203ℛ♠	20k	2.19	1.92	1.64
854399	3329H-1-104ℛ♠	100k	2.19	1.92	1.64

1/2-Watt, 1/4" Round, Cermet Pots (±10%)

3329P Series



- TO-5 grid • Top adjustment
- Terminals: solderable pins
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C

Cross Reference Chart

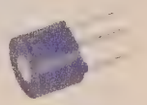
Equivalent to:		Equivalent to:		Equivalent to:	
Beckman	82M	MEC	471	VRN	171
Bourns	3329P	Murata	3321P	Weston	567
Mepcopal	8050	Spectrol	62-3		

Qty.	1	10	100	500
Price	$1.89	$1.59	$1.29	$1.19

Part No.	Cross Ref. No.	Ohms
95450	3329P-502	5k
96719	3329P-103	10k

Bourns® 1/2-Watt, 5/16" Round Trimming Pots (±10%)

3339P Series — Top Adjustment



- 4 turns nominal
- Resistance tolerance: ±10%
- Power rating: 0.5W @ 80°C
- Temperature range: -55°C to 150°C
- Insulation res. (500VDC): 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.

Part No.	Product No.	Ohms	1	10	100
770208	3339P-1-102ℛ♠	1k	$4.45	$3.88	$3.31
854612	3339P-1-103ℛ♠	10k	4.45	3.80	3.31

Chokes

Conformal Coated RF Chokes

J.W. Miller 5300 Series Value Equivalents

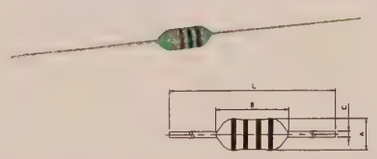
JAMECO EXCLUSIVE



- High current and high self-resonant frequency
- Low DCR • Low cost
- Epoxy coated to protect winding from harsh environments

Part No.	Cross Ref. No.	L ±10% (µH)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Current Max. (mA)	Pricing 1	10	100
642492	5300-25 ℛ	100.0	3.9	0.67	550	$1.29	$1.16	$1.00

Epoxy Conformal Coated Chokes



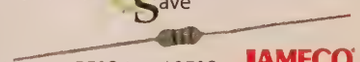
- Operating temperature: -25°C to +85°C
- Size: A = 3.2mm max.; B = 7.0mm max.; C = 0.48±0.5mm (except P/N 208143: 0.50±.05mm); D = 63±3mm
- Tolerance: 5%

Part No.	L (µH)	Q (min.)	Test. Freq (MHz)	Res. Freq Min. (MHz)	DCR Max. (Ω)	Max. DC Curr. (mA)	Pricing 1	10	100
208143	10 ⊕	60	7.96	28.7	1.56	670	$.49	$.45	$.39
208194	100 ⊕	45	2.52	5.0	4.98	240	.49	.43	.35
208240	1000	45	0.796	1.5	31.3	80	.49	.417	.313

Epoxy Conformal Coated RF Chokes

J.W. Miller 77F Series Value Equivalents

Quantity Save



- High current and self-resonant frequency
- Low DCR • Low cost
- Dielectric strength: 500V_{RMS} • Operating temp.: -55°C to +105°C
- Color bands identification • Body length: 0.41"
- Overall length: 2.41" • Lead length: 1.0" • Body diameter: 0.157"

JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing 1	10	100
372091	77F102 ⊕ *	1000.0	1.4	14.0	100	$.43	$.366	$.275

J.W. Miller 78F Series Value Equivalents



Quantity Save

- High Q and self-resonant frequency
- Dielectric strength: 500V_{RMS} • Low cost
- Color bands identification • Low DCR
- Operating temp.: -55°C to +105°C • Body length: 0.28"
- Overall length: 2.28" • Body diameter: 0.11" • Lead length: 1.0"

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing 1	10	100
372111	78F1R0 ⊕	1.0	180	0.15	385	$.42	$.357	$.268
372171	78F100 ⊕ *	10.0	22	0.72	130	.25	.124	.101
372197	78F220 ⊕ *	22.0	13	1.20	140	.42	.357	.268

* L (µH) ±5%

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

ℛ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Molded RF Chokes

- High Q and high reliability
- Dielectric strength: 1000V_{RMS}
- Injection molded to protect coil from extreme environment
- Color bands or numerical marking for identification

JAMECO EXCLUSIVE

J.W. Miller 9250 Series Value Equivalents



- Ferrite magnetic shielded for low radiation
- Operating temp.: -55°C to +105°C

Quantity Save

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (Min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing 1	10	100
372533	9250-474 ⊕	470.0	5.7	9.5	92	Ferrite	$.85	$.72	$.54
372568	9250-106	10,000.0	0.47	137.0	24	Ferrite	1.05	.89	.67

High Current Axial RF Chokes

- High current capacity
- Low DCR
- Ferrite bobbin core
- Test frequency: 1kHz



Quantity Save

JAMECO EXCLUSIVE

J.W. Miller 5800 Series Value Equivalents

Part No.	Cross Ref. No.	L ±10% (µH)	DCR Max. (Ω)	DC Current Max. (A)	Pricing 1	10	100
642564	5800-100 ♻	10	0.033	1.28	$1.19	$.72	$.51
642601	5800-101 ♻	100	0.208	0.632	1.44	.71	.539
642644	5800-221 ♻	220	0.43	0.508	1.44	.71	.539
642695	5800-102 ♻	1000	2.30	0.200	1.29	.79	.60
642716	5800-222 ♻	2200	4.48	0.158	1.25	.93	.70
642741	5800-103 ♻	10,000	26.4	0.05	1.19	.72	.54

J.W. Miller 5900 Series Value Equivalents

642767	5900-220 ♻	22	0.026	6.07	$2.09	$1.28	$.90
642791	5900-101 ♻	100	0.09	2.79	2.09	1.28	.96
642821	5900-221 ♻	220	0.162	1.89	2.09	1.28	.96
642839	5900-271 ♻	270	0.208	1.63	2.09	1.28	.96
642863	5900-471 ♻	470	0.38	1.2	2.09	1.28	.90
642880	5900-102 ♻	1000	0.844	0.8	2.09	1.28	.90
642898	5900-152 ♻	1500	1.18	0.7	2.35	1.20	1.03
642919	5900-682 ♻	6800	5.69	0.322	2.09	1.28	.90
642927	5900-103 ♻	10,000	7.3	0.266	1.95	1.66	1.25

High-Current Toroid Inductors

- DC - DC converter, EMI filter applications
- Low radiation
- Low core loss
- High current capacity
- Operating temperature.: -55°C to +105°C
- V = vertical mount; H = horizontal mount
- See technical datasheets on www.Jameco.com for complete specs.

JAMECO EXCLUSIVE



Horizontal



Vertical

Quantity Save

J.W. Miller 2100 Series Value Equivalents

Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing 1	10	100
371741	2101-V ⊕	10.0	10.8	0.006	0.34	0.053	$1.95	$1.25	$.89
371506	2101-H ⊕	10.0	10.8	0.006	0.77	0.053	1.69	1.03	.74
371822	2109-V ♻	47.0	3.6	0.055	0.31	0.027	1.95	1.66	1.25
371848	2111-V ⊕	68.0	3.3	0.067	0.31	0.027	1.65	.95	.71
371856	2112-V	100.0	2.4	0.13	0.31	0.022	1.99	1.89	1.45
371611	2112-H ⊕	100.0	2.4	0.13	0.74	0.022	1.69	1.04	.74
371872	2114-V ⊕	150.0	3.4	0.062	0.35	0.034	1.65	1.20	.97
371638	2114-H ♻	150.0	3.4	0.062	0.79	0.034	1.69	1.44	1.08
371899	2116-V ⊕	220.0	2.4	0.12	0.34	0.027	1.79	1.32	1.26
371653	2116-H ⊕	220.0	2.4	0.12	0.77	0.027	1.79	1.27	.95
371670	2118-H ⊕	330.0	1.7	0.23	0.76	0.022	1.65	.84	.63
371952	2122-V	680.0	1.4	0.33	0.35	0.022	1.89	1.17	.84
371725	2123-H ⊕	820.0	1.4	0.37	0.79	0.022	1.65	1.40	1.05
371979	2124-V ⊕	1000.0	1.3	0.40	0.37	0.022	1.89	1.05	.79

High-Current Toroid Inductors (Continued)

Quantity Save

J.W. Miller 2200 Series Value Equivalents

Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing 1	10	100
371303	2205-V ⊕	22.0	10.3	0.010	0.46	0.053	$2.25	$1.29	$1.16
371071	2206-H ⊕	27.0	9.8	0.011	0.88	0.053	2.19	1.31	.98
371346	2209-V ⊕	47.0	6.7	0.024	0.45	0.042	2.15	1.26	.95
371371	2212-V ⊕	100.0	4.4	0.056	0.44	0.034	2.95	1.82	1.37
371135	2212-H ⊕	100.0	4.4	0.056	0.86	0.034	2.15	1.84	1.38
371418	2216-V ⊕	220.0	3.6	0.083	0.48	0.034	2.85	1.57	1.45
371434	2218-V ⊕	330.0	3.3	0.10	0.48	0.034	2.89	1.64	1.23

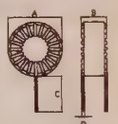
J.W. Miller 2300 Series Value Equivalents

Part No.	Cross Ref. No.	L (µH) @ 1KHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing 1	10	100
386901	2301-V ⊕	10.0	20.0	0.005	0.56	0.066	$2.19	$1.47	$1.10
386978	2304-V ⊕	18.0	17.2	0.006	0.56	0.066	2.49	2.12	1.59
386521	2308-H ⊕	39.0	11.2	0.014	1.14	0.053	2.19	1.47	1.10
387111	2310-V ⊕	56.0	10.2	0.017	0.53	0.053	2.19	1.47	1.10
386601	2312-H ⊕	100.0	7.0	0.037	1.13	0.042	2.19	1.30	.98
387188	2313-V ⊕	120.0	6.7	0.040	0.52	0.042	2.75	1.88	1.41
387268	2316-V ⊕	220.0	5.8	0.054	0.56	0.042	2.19	1.49	1.13
386767	2319-H ⊕	390.0	5.0	0.072	1.17	0.042	2.59	2.00	1.50
387364	2320-V ⊕	470.0	3.8	0.13	0.54	0.034	2.49	1.70	1.28

J.W. Miller 5700 Series Value Equivalents

- Low radiation
- Low core loss
- High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max. C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 165 for EMI suppression cores
- See technical datasheets on www.Jameco.com for complete specifications





LOWER PRICES

Quantity Save

Part No.	Cross Ref. No.	L (µH)	IDC max. (A)	L min. @ IDC	Pricing 1	10	25	50	100
208259	5701 ♻	10	11.0	5	$4.35	$4.17	$3.99	$3.60	$3.49
208291	5705 ⊕	450	1.5	250	4.65	4.38	4.15	3.69	2.76

Littelfuse TVS Diode Arrays

The SP720 is an array of SCR/Diode bipolar structures for ESD and overvoltage protection to sensitive input circuits. It contains 2 protection SCR/Diode device structures per input for a total of 14 inputs.



Part No.	Product No.	Package	1	10	100	500
1762470	SP720AP♠	DIP-16	$2.29	$2.12	$1.94	$1.79
1762453	SP720ABG♠	SOIC-16	2.49	2.31	2.11	2.03

NTC Thermistors

- Typical applications: temperature measurement/ control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%



Part No.	Cross Ref. No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing 1	10	100	500
207483	NTC-102 ♻	1k	3800	-4.3	$.65	$.506	$.403	$.331
207441	NTC-502 ♻	5k	3900	-4.4	.59	.49	.39	.32
207037	NTC-103 ♻	10k	4100	-4.6	.69	.57	.446	.366
206991	NTC-104 ♻	100k	4400	-4.9	.60	.54	.40	.30

We're Listening to What You Need

Our goal is to provide you with more of what you want.
Let us know how we can better serve your electronics needs.
Please send your requests to NewProducts@Jameco.com.

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Varistors are available online at www.Jameco.com/Passives

LA Series Radial Leaded Varistor

- AC power line applications
- Power supplies
- High energy absorption
- UL recognized as "across-the-line components"
- UL recognized as "transient voltage surge suppressors"

LA Series Part No.	Cross Ref. No.	Disc Dia. (mm)	Max. Ratings (+85°C) Continuous RMS Volt. $V_{M(AC)}$ Volts	Continuous DC Volt. $V_{M(DC)}$ Volts	Transient Energy (10/1000µs) W_{TM} Joules	Characteristics at 25°C Max Clamping Volt. @ I_{PK} Value Curr. (8/20µs) V Volts	I_{PK}=2.0A Amps	Pricing 1	10	100	500
34462	V130LA20A	20	130	175	70	340	100	$.59	$.56	$.54	$.52


34462

LA Series Equivalent Radial Leaded Varistors

JAMECO EXCLUSIVE



Part No.	Cross Ref. No.	Size Dia. (mm)	Continuous Voltage RMS $V_{M(AC)}$	Continuous Voltage DC $V_{M(DC)}$	Transient Energy Joules	Maximum Clamping Voltage V_C	Maximum Clamping Voltage $I_{PK(A)}$	Pricing 1	10	100
667059	V130LA20B℟	20	130	200	140	340	100	$.47	$.41	$.359
667112	V150LA10A℟	14	150	240	84	395	50	.30	.274	.225

Littelfuse LA Series Radial Leaded Varistors

The LA series of transient voltage suppresors are radial-lead varistors (MOV) that are designed to be operated continuously across AC power lines.



✳ Minimum order 5 pieces

Part No.	Product No.	Size (Dia.) mm	Continuous Voltage $V_{M(AC)}$	Continuous Voltage $V_{M(DC)}$	Transient Energy Joules	Max. Clamping Voltage V_C	Max. Clamping Voltage $I_{PK(A)}$	Pricing 1	5	100
1776046	V130LA2♠	7	130	175	11	340	10	✳	$.163	$.162
1762875	V130LA10AP℟♠	14	130	175	38	340	50	✳	.304	.284
1762883	V130LA20AP℟	20	130	175	70	340	100	.52	.431	.412
1776054	V150LA10A♠	14	150	200	45	395	50	✳	.365	.327
1763229	V150LA20AP℟♠	20	150	200	80	395	100	.57	.55	.52
1776062	V250LA20A♠	14	250	330	72	650	50	✳	.274	.265
1763819	V250LA40BP℟♠	20	250	330	130	620	100	.50	.436	.416
1763940	V275LA2P℟♠	7	275	369	23	775	10	✳	.422	.316
1763923	V275LA10P℟♠	10	275	369	45	710	25	✳	.216	.206
1763958	V275LA40AP℟♠	20	275	369	140	710	100	.57	.477	.45
1776071	V275LA40B♠	20	275	369	140	680	100	✳	.436	.416
1764141	V300LA4P℟♠	7	300	405	25	775	10	✳	.208	.147
1764192	V320LA40BP℟♠	20	320	420	150	810	100	✳	.436	.416
1776089	V420LA20A♠	14	420	560	90	1120	50	✳	.40	.36
1764555	V420LA40BP℟♠	20	420	560	160	1060	100	.56	.51	.48

Littelfuse ZA Series Radial Leaded Varistors

The ZA series of transient voltage surge suppressors are radial lead varistors (MOV) designed for use in the protection of low and medium voltage circuits and systems.



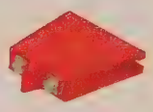
✳ Minimum order 5 pieces

Part No.	Product No.	Size (Dia.) mm	Continuous Voltage $V_{M(AC)}$	Continuous Voltage $V_{M(DC)}$	Transient Energy Joules	Max. Clamping Voltage V_C	Max. Clamping Voltage $I_{PK(A)}$	Pricing 1	5	100
1763536	V18ZA1P℟♠	7	10	14	0.8	36	2.5	✳	$.174	$.16
1764301	V33ZA1℟♠	7	20	26	1.2	65	2.5	✳	.168	.154
1764310	V33ZA5℟	14	20	26	6	65	10	.30	.274	.265
1764441	V39ZA1P℟♠	7	25	31	1.2	79	2.5	✳	.157	.147
1776011	V39ZA6♠	14	25	31	6	76	10	✳	.333	.323
1764660	V47ZA7P℟♠	14	30	38	8.8	93	10	✳	.274	.265
1776038	V56ZA2♠	7	35	45	2.3	110	2.5	✳	.253	.215
1764993	V68ZA2P℟♠	7	40	56	3	135	2.5	✳	.253	.215

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

Littelfuse High Energy Industrial DA Series Varistor

The DA series transient surge suppressors are heavy duty industrial metal-oxide varistors designed to provide surge protection for motor controls and power supplies used in oil drilling, mining and transportation equipment.



Part No.	Product No.	Continuous Voltage $V_{M(AC)}$	Continuous Voltage $V_{M(DC)}$	Transient Energy Joules	Max. Clamping Voltage 200A (V_C)	Pricing 1	10	100
1764256	V321DA40♠	320	420	460	830	$39.29	$35.10	$31.10

TRIAD MAGNETICS PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- Applications: line matching, telephone coupling, pulse trigger, driver, interstage, output, isolation and input
- Size: 5/8"H x 9/32"D x 13/16"L

LOWER PRICES



Part No.	Product No.	Output (mW)	Impedance (Ω) Primary	Impedance (Ω) Secondary	Primary DC Unbalance	Pricing 1	10	100
630459	TY-145P	100	600CT	600CT	15mA	$3.85	$3.09	$2.99

Modem Coupling Transformer

125357:

- Insulation resistance: 100MΩ
- Vacuum wax impregnated
- Core type: EI-14 • Hipot tested: 1000VAC
- ±20% impedance matching and DC resistance matching



Part No.	Cross Ref. No.	Impedance (Ω) Primary	Impedance (Ω) Secondary	Resistance (Ω) Primary	Resistance (Ω) Secondary	Pricing 1	10	100
125357	XFR6006A14℟	600CT	600CT	65	55	$1.39	$1.31	$1.28

Bourns® MF-R Series PTC Resettable Fuses

- Applications: almost anywhere there is a low voltage power supply and a load to be protected including computers and peripherals, general electronics and automotive applications
- Operating temperature: -40°C to 85°C



MF-R Series

✳ Minimum order 5 pieces

Part No.	Product No.	V max. @ I max.	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Pricing 1	5	100
776116	MF-R010-0-99℟♠*	60V@40A	0.1	0.2	$.51	$.48	$.39
859376	MF-R050 ℟	60V@40A	0.5	1	.51	.48	.39
776167	MF-R050-0-99℟*	60V@40A	0.5	1	.51	.48	.36
776175	MF-R075 ℟♠	60V@40A	0.75	1.5	✳	.338	.318
776183	MF-R090 ℟♠	60V@40A	0.9	1.8	✳	.338	.318
859384	MF-R110℟	30V@40A	1.1	2.2	.53	.485	.364
776239	MF-R185 ℟♠	30V@40A	1.85	3.7	✳	.375	.353

*See manufacturer's datasheet for marking details

ECE Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

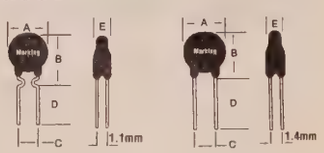


Fig. 1 Fig. 2

RA Series

- Rated voltage: (V_{MAX}): 60V
- Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.

Part No.	Mfg. P/N	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Fig.	Size (mm) A	B	C	Pricing 1	10	100	500
199815	RA010-60℟	0.10	0.20	1	7.4	12.7	5.1	$.54	$.49	$.47	$.37
199832	RA020-60℟	0.20	0.40	1	7.4	12.2	5.1	.55	.493	.469	.373
199858	RA030-60℟	0.30	0.60	1	7.4	13.0	5.1	.54	.49	.47	.37
199874	RA050-60℟	0.50	1.00	1	7.9	13.7	5.1	.58	.55	.51	.38
199882	RA065-60℟	0.65	1.30	1	9.7	14.5	5.1	.54	.495	.406	.366
199912	RA110-60℟	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

℟ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Fuses are available online at www.Jameco.com/Passives

Raychem Polyswitch® PTC Resettable Fuses

NEW LOWER PRICES

- Flame retardant epoxy polymer, YL94V-0 rated
- For detailed product datasheet, please see www.Jameco.com

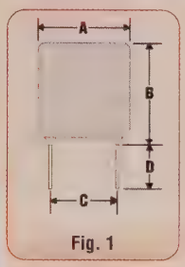


Fig. 1

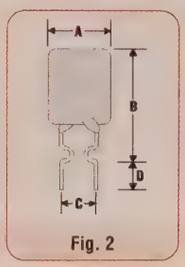


Fig. 2

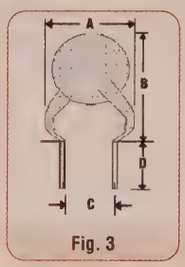


Fig. 3

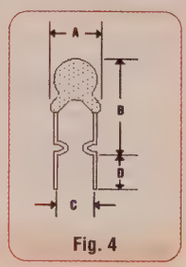


Fig. 4

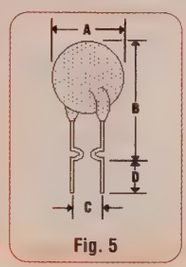


Fig. 5

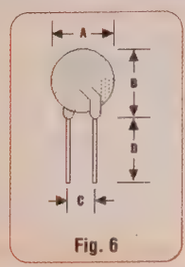


Fig. 6

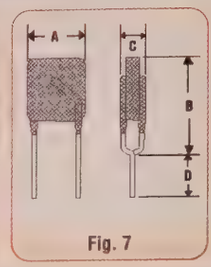


Fig. 7


Fig. 8


Fig. 9

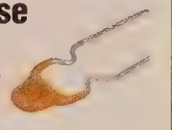
Part Number	Product Number	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Fig	Size (mm) A	B	C	D	Pricing 1	5	100
RGE Series (16V/100A max.)											
865952	RGE700 ♠	7	11.9	1	11.2	19.7	5.8	7.5	★		Call/Web
★ Please call or visit our website for minimum order quantity and pricing. ✳ Minimum order 5 pieces											
RUE Series (30VDC/100ADC; 30VAC/70ARMS) ✪ Blue P/N = Limited Qty Available											
866146	RUEF090 ♠	0.9	1.8	2	7.4	12.2	5.8	7.6	✳	$.281	$.259
923438	RUE110 ♠ ✪	1.1	2.2	2	7.4	12.2	5.8	7.6	✳	.297	.287
866171	RUEF110 ♠	1.1	2.2	2	7.4	14.2	5.8	7.6	✳	.281	.265
866200	RUEF135 ♠	1.35	2.7	2	8.9	13.5	5.8	7.6	.50	.419	.385
923497	RUE185♠	1.85	3.7	2	10.2	15.7	5.8	7.6	.50	.448	.412
866234	RUEF185 ♠	1.85	3.7	2	10.2	15.7	5.8	7.6	.50	.448	.412
923551	RUE400♠	4	8	1	14	19.3	5.8	7.6	.57	.50	.46
923657	RUEF400 ♠	4	8	1	14	19.3	5.8	7.6	✳	.388	.363
866322	RUEF600 ♠	6	12	1	16.5	24.1	10.9	7.6	.51	.46	.41
923614	RUE700	7	14	1	19.1	25.9	10.9	7.6	.54	.48	.43
1400090	RUEF800	8	16	1	21.6	28.4	10.9	7.6	.71	.65	.59
1400111	RUEF900 ♠	9	18	1	24.1	29	10.9	7.6	.75	.70	.64
RXE Series (60V/40A max.) ✳ Minimum order 5 pieces											
866630	RXEF005 ♠	0.05	0.1	3	8	8.3	5.8	7.6	✳	$.24	$.224
923673	RXE010♠	0.1	0.2	4	7.4	11.6	5.8	7.6	✳	.265	.251
866664	RXEF010 ♠	0.1	0.2	4	7.4	11.6	5.8	7.6	✳	.235	.219
866701	RXEF017 ♠	0.17	0.34	5	7.4	12.7	5.8	7.6	✳	.239	.222
866736	RXEF020 ♠	0.2	0.4	5	7.4	11.7	5.8	7.6	✳	.242	.226
866761	RXEF025 ♠	0.25	0.5	5	7.4	12.7	5.8	7.6	✳	.238	.228
RXE Series (72V/40A max.) ✳ Minimum order 5 pieces											
923711	RXE020♠	0.2	0.4	5	7.4	11.7	5.8	7.6	✳	$.265	$.238
923737	RXE025♠	0.25	0.5	5	7.4	12.7	4.3	7.6	✳	.284	.257
923753	RXE030♠	0.3	0.6	5	7.4	12.7	4.3	7.6	✳	.356	.323
866808	RXEF030 ♠	0.3	0.6	5	7.4	12.7	5.8	7.6	✳	.245	.23
923796	RXE050♠	0.5	1	5	7.9	13.7	5.8	7.6	✳	.307	.289
924019	RXEF050 ♠	0.5	1	5	7.9	13.7	5.8	7.6	✳	.27	.254

Part Number	Product Number	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Fig	Size (mm) A	B	C	D	Pricing 1	5	100
RXE Series (72V/40A max.) (Continued) ✳ Minimum order 5 pieces											
923833	RXE075♠	0.75	1.5	5	10.2	15.2	5.8	7.6	✳	$.409	$.371
923850	RXE090♠	0.9	1.8	5	11.2	15.8	5.8	7.6	✳	.414	.376
866921	RXEF090 ♠	0.9	1.8	5	11.2	15.8	5.8	7.6	✳	.28	.265
923876	RXE110♠	1.1	2.2	6	12.8	17.5	5.8	7.6	✳	.282	.265
866955	RXEF110 ♠	1.1	2.2	6	12.8	17.5	5.8	7.6	✳	.282	.265
923892	RXE135♠	1.35	2.7	6	14.5	19.1	5.8	7.6	✳	.294	.275
923913	RXE160♠	1.6	3.2	6	16.3	20.8	5.8	7.6	✳	.301	.282
867026	RXEF185 ♠	1.85	3.7	6	17.5	22.4	5.8	7.6	✳	.323	.305
924051	RXEF250 ♠	2.5	5	6	20.8	25.4	10.9	7.6	✳	.36	.338
867077	RXEF300 ♠	3	6	6	23.9	28.6	10.9	7.6	✳	.387	.365
TRF Series (Fault voltage: 250VRMS)											
• Operating voltage: 250VDC • Interrupt current: 3ARMS											
867464	TRF600-150 ♠	0.15	0.3	7	9	12.5	4.6	4.7	$.73	$.67	$.62
MiniSMD Series											
• Rating: **1393088**: 60VDC@10A **1393205**: 13.2VDC@100A **1393133**: 30VDC@10A **1393264**: 8VDC@100A **1393150**: 24VDC@100A ✳ Minimum order 5 pieces											
1393088	MINISMDC014F-2 ♠	0.14	0.28	8	4.73	0.89	3.41	0.95	✳	$.292	$.262
1393133	MINISMDC020F-2 ♠	0.2	0.4	8	4.73	0.89	3.41	0.95	✳	.292	.262
1393150	MINISMDC050F-2 ♠	0.5	1	8	4.73	0.62	3.41	0.95	✳	.325	.296
1393205	MINISMDC075F-2 ♠	0.75	1.5	8	4.73	0.62	3.41	0.95	✳	.322	.293
1393264	MINISMDC110F-2 ♠	1.1	2.2	8	4.73	0.62	3.41	0.95	✳	.272	.248
SMD Series											
• Rating: **1369424/1369678**: 60/12/5 VDC@ 10/60/125A **1370038**: 30/12/5 VDC @ 40/60/125A											
1369424	SMD050-2♠	0.5	1	9	7.98	3.18	5.44	0.71	★		Call/Web
1369678	SMD050F-2 ♠	0.5	1	9	7.98	3.18	5.44	0.71	★		Call/Web
1370038	SMD100-2♠	1.1	2.2	9	7.98	3.0	5.44	0.74	★		Call/Web
1371073	SMD0185F-2 ♠	1.85	3.6	9	9.4	3.0	6.71	0.71	★		Call/Web

★ Please call or visit our website for minimum order quantity and pricing

Littelfuse POLYFUSE® PTC Resettable Fuse

The 60R series radial leaded device is designed to provide overcurrent protection for (≤60V) applications where space is not a concern and resettable protection is preferred.



Part No.	Product No.	Hold Current	Trip Current (A)	Dimensions (Ins) Dia.	Height	Lead Length	Lead Spacing	Thickness	Pricing 1	10	100
1712624	60R010♠	0.1	0.2	0.29	0.5	0.3	0.2	0.12	$.59	$.57	$.525

Fuse Clips

- Low contact resistance • Low profile
- Withstands shock/vibration
- **Prepackaged: please order in increments of 10**


Fig. 1



Fig. 2

Part No.	Description	Fig.	Size (H" x W" x D" x P")	10	100	1000
102860	5mm, front leads	1	.37 x .25 x .21 x .19	$.118	$.051	$.043
102842	1/4", front leads (10A)	2	.32 x .27 x .25 x .23	.09	.08	.07

Panel Mount Fuse Holders

1¼" x ¼" Standard Thumbscrew Cap

- Straight solder terminal; 10A @ 250VAC

18703





Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120994	—	1.95"L x .71"Dia.	.58"Dia. (Double D-style)	$.95	$.83	$.66	$.59
18703	UL/CSA	2.05"L x .71"Dia.	.58"Dia. x .52"Flat (D-style)	1.59	1.35	1.15	.99

5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal • Size: 1.5"L x 0.6"Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150464	—	6A @ 250VAC	.50"Dia. x .43"Flat	$1.15	$.98	$.78	$.59
102825	UL/CSA	10A @ 250VAC	.50"Dia.	1.25	1.04	.92	.75

Open an account with us to consolidate your monthly billing and save time. 1-800-831-4242

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

5mm x 20mm Miniature Low Profile Fuse Holder

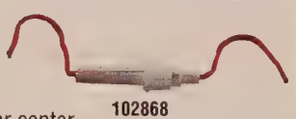
- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia.
- D-style mounting hole: 1 ea. 0.5"Dia x .46" flat



Part No.	Description	1	10	100
102832	Fuse holder UL/CSA ⊕	$2.95	$2.69	$2.39

In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108784 orange



102868

✪ Blue Part No. = Limited Quantity Available

JAMECO EXCLUSIVE

1¼" x ¼" Standard

Part No.	AWG	Wire Lgths	Body Size(L)	Body Color	1	10	100
109322	22 ♻	3.5/3"	2.4"	Black	$.82	$.74	$.56
102868	20 ♻	3/3"	2.2"	White	.78	.70	.58
151918	18 ♻	6/6"	2.4"	White	1.19	1.02	.78
108783	16 ⊕ ✪	21/26"	2.2"	Black	1.49	1.24	1.09
108784	16 ♻	21/26"	2.2"	Black	1.79	1.63	1.49
108792	14 ♻	19/25"	2.5"	Black	3.05	2.75	1.99

5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size	1	10	100
109330	20 ⊕	Red	1.8"L	$.69	$.56	$.45

KEYSTONE Fuse Holders & Clips

Automotive

1581839



1582487



- Vertical entry
- Current rating: 30A @ 500VAC (except P/N 1581863: 60A @ 500VAC)
- Dual Fuses: UL9V-0

✳ Minimum order 10 pieces

Part No.	Product No.	Description	1	10	100
1581839	3522 ♻	Dual, brass, tin plated ✳		$.116	$.104
1582479	3522-2 ♻	Single, brass, tin plated	.62	.52	.41
1582487	3544-2 ♻	"Mini", dual, brass, tin nickel plated	.76	.72	.49
1581863	3555 ♻	"Maxi", single, brass, tin nickel plated	.22	.198	.178

5mm Fuse Clips

- PC mount
- Material: brass, tin plated

1581855



Minimum order 10 pieces

Part No.	Product No.	Description	10	100
1581812	3517 ♻	Single, end stop, 15A	$.108	$.102
1582461	3518P ♻	Single, orient. leg, 15A	.158	.144
1581821	3519 ♻	Single, orient. leg, 10A	.087	.078
1581855	3529 ♻	Single, end stop, 10A	.095	.089

5mm Fuse Holder

- PC Mount
- Low profile
- Material: nylon, UL9V-0

1581871



Minimum order 10 pieces

Part No.	Product No.	Description	10	100
1581871	4527 ♻	Holder, 5A @ 250VAC	$.333	$.312
1582495	4527-C ♻	Cover	.137	.13

Littelfuse Fuse Holders & Fuse Clips

Panel Mount

Traditional Style for 3AG Fuses



- Dielectric strength: 2400V min.
- Knob: bayonet style with lettering
- Molded parts: black thermoplastic, UL94V-0
- Current rating: 20A • Solder terminals
- Terminals: copper & copper alloy, tin plated

Part No.	Product No.	1	10	100
1711681	342012 ♻	$2.65	$2.49	$2.07

For Midget Fuses

- Electrical rating: 30A up to 600V • UL/CSA
- Dielectric strength: 4000V min. • Mounting: flange
- Knob: screw type with engraved markings
- Terminals: brass, tin plated • Length range: 1 13/32" - 1½"
- Molded parts: black thermoplastic, UL94V-0

Part No.	Product No.	Description	1	10	100
1712616	571007 ♻	Straight term.	$5.29	$4.96	$4.53

Panel Mount Blade Fuse Holders

For Mini® Style Blade Fuses

1708861



- Rating: 15A

Part No.	Product No.	Description	1	10	100
1708861	153007 ♻	Horizontal	$1.29	$1.21	$1.12
1708879	153009 ♻ ♠	Stackable vert.	1.29	1.21	1.12

Twist-Lock Universal In-Line Fuse Holder



- 8" loop of #14AWG red vinyl insulated wire and 2 springs in different lengths to accommodate SFE sized fuses

Part No.	Product No.	1	10	100
1708959	155100 ♻	$2.09	$1.97	$1.64

Heavy Duty Bayonet Knob Universal In-line Fuse Holder



- Supplied with 15" loop #14AWG red vinyl insulated wire and three springs in different lengths to accommodate SFE sized fuses.

Part No.	Product No.	1	10	100
1708810	150145 ♻	$2.85	$2.64	$2.20

Metric Omni-Blok® Fuse Block for 5mm x 20mm Fuses



- Dielectric strength: 1500V min.
- PCB mount
- Clip/terminals: tin plated spring brass
- Base: glass reinforced thermoplastic, UL94V-0, black
- Electrical rating: (UL/CSA) – 10A, 300V; (VDE/Semko) – 6.3A, 250V • Width: 0.40"

Part No.	Product No.	Terminals	1	10	100
1712608	520101 ♻ ♠	Brass	$.89	$.83	$.77

Fuse Clips for 3AG Type 1/4" Dia. Traditional Style PCB



- Finish: tin-plate (P/N 1708799: silver-plate)

✳ Minimum order 10 pieces

Part No.	Product No.	Clip Material	Style	1	10	100
1708705	102070 ♻ ♠	Spring brass	Ear ✳		$.127	$.108
1708713	102074 ♻	Spring brass	Earless ✳		.158	.156
1708799	122083 ♻ ♠	Beryllium copper	Ear	.54	.50	.42

Bowed Tab PCB



- Clip material: spring brass
- Ear style

Minimum order 5 pieces

Part No.	Product No.	5	100
1708748	102079 ♻ ♠	$.25	$.218

Subminiature Fuse Holders No. 560 for TR5®/TE5® Fuses



- PCB Mount, 5.08mm pin spacing
- Terminals: tinned copper alloy
- Electrical rating: 250V, 6.3A, 1.6W
- Holder: thermoplastic UL94V-0, polyester PCT

Part No.	Product No.	1	5	100
1716887	5600000100 ♻ ♠	$.62	$.57	$.42
1716895	5600000131 ♻ ♠	.50	.46	.435

No. 559 for TR5®/TE5® Leadfree



- PCB Mount, 7.18mm pin spacing
- Electrical rating: 250V, 6.3A, 1.6W
- Holder: black thermoplastic, UL94V-0, polyamide PA 6.6
- Terminals: tinned copper alloy

Minimum order 5 pieces

Part No.	Product No.	5	100
1716844	5590000000 ♠	$.347	$.337

Vertical PCB Mount Fuse Holders for Micro® Fuse or PICO® II Fuse



- Terminals: copper alloy
- Molded parts: white thermoplastic
- Electrical rating: 5A for voltage up to 125V

Part No.	Product No.	Term. Plating	1	5	100
1710725	281005 ♻ ♠	Silver	$1.95	$1.82	$1.50
1710741	281008 ♻ ♠	Tin	1.99	1.89	1.56

3AG Omni-Blok® Molded Base Type Fuse Block



- Dielectric strength: 1500V min.
- Clip/terminals: tin-plated spring brass • Terminal: solder
- Base: glass reinforced thermoplastic, gray, UL94V-0

Part No.	Product No.	Curr. Rating	1	10	100
1711947	354001-GY ♻	15A, 300V	$.82	$.76	$.64

Shock-Safe Fuse Holders for 3AG or 5mm x 20mm Fuses



- Electrical rating: (UL) – 16A, 250V; (CSA) – 15A, 250V; (VDE) – 10A, 250V
- Insulation resistance: 10,000Mfl min. @ 500VDC
- Dielectric strength: 4000V min.
- Terminals: brass, tin plated • PCB mounting
- Contact resistance: less than 5mfl average @ 1A
- Molded body: glass filled thermoplastic, UL94V-0
- Knob: screwdriver slot, fuse extractor type with nickel-plated copper alloy inserts, spring loaded, bayonet style • Approvals: UL/CSA/VDE
- Knob material: gray or black glass filled thermoplastic, UL94V-0

1711761/1711787: Knob only; **1711779**: Assembly

Part No.	Product No.	Fuse Size	1	5	100
1711761	345101-020 ♻	1/4" x 1 1/4"	$1.01	$.94	$.78
1711779	345121 ♻ ♠	5mm x 20mm	3.75	3.51	2.92
1711787	345121-020 ♻ ♠	5mm x 20mm	1.43	1.35	1.22

Over 99% of Our Catalog Products Are In Stock

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Fuses are available online at www.Jameco.com/Passives

Bussmann Fuse Holder & Clips

HKP Panel Mount Fuse Holders

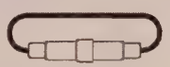

1769807

- Max. panel thickness: 5/16" (7.9mm)
- Body/cap/nut: thermoplastic, UL94 HB • UL/CSA • 250V
- Bayonet type knob • Terminal: tin-plated brass

1769807: • Size: 2.31"L x 0.69"D • Solder eyelet
1769815: • Size: 2.64"L x 0.69"D • 1/4 quick connect

Part No.	Product No.	Amps	1	10	100
1769807	HKP♠	30	$2.55	$1.85	$1.75
1769823	HKP-HH-R ♠	15	1.33	1.25	1.14

HHT In-Line Fuse Holder for 5mm x 15mm & 5mm x 20mm Fuses



- Body material: black, thermoplastic
- Wire leads: 13" 16AWG 0.14" OD red
- Size: 1.84"L x 0.42"D • Terminals: brass
- Rating: 5mm x 15mm – 5A @ 32VDC; 5mm x 20mm – 10A @ 32VDC

Part No.	Product No.	1	10	100
1769794	HHT ♠	$1.99	$1.72	$1.56

Fuse Clips PCB Type for ATC 5mm, 1/4" and 13/32" Diameter Fuses



With End Stops and Straight Leads for 1/4"Dia. Fuses

- Finish: silver • Clip material: beryllium copper

Part No.	Product No.	1	10	100
1769022	1A1907-05 ♠	$.50	$.40	$.38

With Straight Leads for 5mm Diameter Fuses



Minimum order 5 pieces

Part No.	Product No.	5	100
1769065	1A3399-10 ♠	$.129	$.118

For ATC Fuses (0-20A)



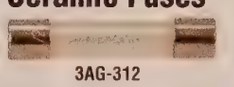
- Clip material: cartridge brass

Minimum order 5 pieces

Part No.	Product No.	Finish	5	100
1769102	1A5600 ♠	Satin finish tin	$.32	$.30

Littelfuse Glass & Ceramic Fuses


3AG-313


3AG-312

- 250V • 1.25"L x 0.25"Dia. • UL/CSA/CE

✪ Blue Part No. = Limited Quantity Available

312 Series 3AG Type Fast Acting Glass Fuses

Part No.	Product No.	Amps	1	10	100
652906	312.375HXP ✪	3/8	$.41	$.39	$.38
652922	312.600HXP	6/10	.27	.265	.257
652931	312.750HXP	3/4	.27	.265	.257
652949	312001.HXP	1	.25	.226	.186
653010	312005.HXP	5	.28	.263	.25
653028	312006.HXP	6	.28	.263	.25
653036	312007.HXP	7	.28	.263	.25
653044	312008.HXP	8	.362	.351	.341

313 Series 3AG Type Slow Blow Glass Fuses

Part No.	Product No.	Amps	1	10	100
653263	313.010HXP	1/100	$3.29	$3.08	$2.56
653271	313.031HXP	1/32	3.29	3.08	2.56
653280	313.040HXP	4/100	3.29	3.08	2.56
653298	313.062HXP	1/16	1.69	1.58	1.46
653335	313.187HXP	3/16	1.45	1.38	1.31
653343	313.200HXP	2/10	1.45	1.38	1.31
653511	313003HXP	3	.76	.75	.74

Littelfuse Glass & Ceramic Fuses (Cont.)

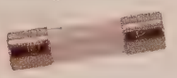
326 3AB Series Time Delay



- 250V • Body: ceramic
- UL/CSA • 1.25"L x 0.25"Dia.

Part No.	Product No.	Amps	1	10	100
1711621	326015.HXP ♠	15	$1.28	$1.20	$.99

217 Series 5mm x 20mm Fast Acting Fuses



- 250V • Body: glass
- UL/CSA/VDE/CE
- 5mm x 20mm

Minimum Order 5 pieces

Part No.	Product No.	Amps	5	100
1709450	217001.HXP	1	$.245	$.225

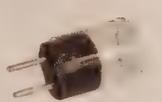
218 Series 5mm x 20mm Time Lag Fuses



- 250V • Body: glass
- UL/CSA/CE
- 5mm x 20mm

Part No.	Product No.	Amps	1	10	100
1709581	218.200HXP ♠	0.20	$1.15	$1.06	$.88
1709599	218.250HXP	0.25	1.15	1.06	.88
1709628	218.400HXP ♠	0.40	1.15	1.06	.88
1709644	218.500HXP ♠	0.50	.77	.73	.60
1709695	218001.HXP ♠	1.00	.77	.73	.68
1709708	218002.HXP	2.00	.77	.73	.60
1709812	21802.5HXP ♠	2.50	.90	.81	.73

273 Series Micro™ Very Fast Acting Type



- 125V • UL/CSA • Body: glass
- Operating temp. range: -55°C to 85°C
- Size: 0.25"D x 0.35"H x 0.17" lead length x 0.1" lead spacing

Part No.	Product No.	Amps	1	10	100
1710653	273.050H ♠	1/20	$4.25	$3.86	$3.47
1710670	273.500H ♠	1/2	4.19	3.80	3.40
1710688	273.750H ♠	3/4	4.25	3.86	3.47
1710696	273001.H ♠	1	4.19	3.81	3.43
1710709	273002.H ♠	2	4.19	3.81	3.43
1710717	273004.H ♠	4	4.19	3.81	3.43

Bussmann Fuses



AGC (3AG) Fast Acting Glass Fuses

- Glass tube, nickel-plated brass endcaps
- 250V • 1/4" x 1 1/4"
- UL/CSA

✳ Minimum order 10 pieces

Part No.	Product No.	Amps	1	10	100
1769153	AGC-1/2-R ♠	1/2	$1.09	$.97	$.88
1769196	AGC-2-R ♠	2.0	.68	.62	.55
1769225	AGC-3-R ♠	3.0	✳	.106	.22

ATC Automotive Blade Fast Acting Fuses

- Volt. rating: 32VDC
- Interrupting rating: 1000A

Part No.	Product No.	Amps	Color	1	10	100
1769313	ATC-5 ♠	5.0	Tan	$.87	$.62	$.59
1769268	ATC-15 ♠	15.0	Blue	.87	.62	.59

GDB Fast Acting Glass Fuses

- 250V • UL/VDE
- 5mm x 20mm

Part No.	Product No.	Amps	1	5	100
1769436	GDB-1A ♠	1.0	$.22	$.158	$.149
1769452	GDB-6.3A ♠	6.3	.22	.158	.149

Bussmann Fuses (Continued)

GDC Time Delay Glass Fuses

- 250V • UL/VDE • 5mm x 20mm

Part No.	Product No.	Amp	1	10	100
1769532	GDC-500mA ♠	0.500	$.77	$.61	$.58
1769487	GDC-1A ♠	1.0	.70	.51	.47
1769479	GDC-1.6A ♠	1.6	.70	.50	.47
1769495	GDC-2A ♠	2.0	.70	.50	.47
1769508	GDC-3.15A ♠	3.15	.76	.61	.56
1769524	GDC-4A ♠	4.0	.70	.51	.47
1769541	GDC-5A ♠	5.0	.76	.61	.56
1769559	GDC-6.3A ♠	6.3	.67	.58	.55

GDA Fast Acting Ceramic Fuse

- 250V • UL/VDE • 5mm x 20mm

Part No.	Product No.	Amp	1	10	100
1769381	GDA-3.15A ♠	3.15	$1.06	$.95	$.83

GMA Fast Acting Glass Fuses

- 250V • UL/CSA • 5mm x 20mm

Minimum order 10 pieces

Part No.	Product No.	Amp	10	100
1769583	GMA-1-R ♠	1.0	$.091	$.082
1769591	GMA-3-R	3.0	.091	.082

GMT Fast Acting Indicating Fuses

- Voltage rating: 60VDC, 125VAC • UL
- Interrupting rating: 450A @ 60VDC; 300A @ 125VAC
- Body material: thermoplastic, UL94V-0
- Terminals: tin-plated beryllium copper

Part No.	Product No.	Amp	Color	1	10	100
1769639	GMT-1A ♠	1.0	Gray	$2.09	$1.67	$1.51
1769647	GMT-2A ♠	2.0	Orange	2.09	1.67	1.51
1769663	GMT-3A ♠	3.0	Blue	2.09	1.67	1.59
1769671	GMT-5A ♠	5.0	Green	2.09	1.67	1.59
1769680	GMT-7.5A ♠	7.5	Blk/Whi	2.09	1.67	1.59
1769621	GMT-10A ♠	10.0	Red/Whi	2.09	1.67	1.50

Minimum order 5 pieces

Part No.	Product No.	Amp	5	100
1769698	GMT-X ♠	Fuse cover for GMT Series	$.40	$.36

MDA Time Delay Ceramic Fuse

- 250VAC / 125VDC • UL/CSA • 1/4" x 1 1/4"

Part No.	Product No.	Amp	1	10	100
1770154	MDA-20 ♠	20.0	$1.35	$.97	$.93

MDL Time Delay Glass Fuses

- 250V • UL/CSA • 1/4" x 1 1/4"

Part No.	Product No.	Amp	1	10	100
1770218	MDL-1-R ♠	1.0	$1.01	$.85	$.70
1770251	MDL-2-R ♠	2.0	.77	.65	.53
1770293	MDL-5-R ♠	5.0	.77	.65	.53

PC-Tron® Series Subminiature PCB Type Fuse

- PCC Series: 250VAC/450VDC • UL/CSA
- PCE Series: 125VAC/250VDC • Body: plastic
- Size: 0.35"W x 0.32"H x 0.1" Lead Length x 0.2" Lead spacing • Leads: tin-plated copper

Part No.	Product No.	Amp	1	10	100
1770357	PCC-1 ♠	1.0	$1.69	$1.35	$1.28
1770373	PCC-2 ♠	2.0	1.65	1.33	1.26
1770381	PCC-3 ♠	3.0	1.65	1.35	1.28
1770402	PCE-5 ♠	5.0	1.69	1.35	1.28

Part No.	Product No.	Description	1	10	100
1770429	PCS ♠	PCB Socket	$.63	$.50	$.48

KTK Limitron® Fast Acting Fuse



- 600VAC • UL/CSA • 0.41"D x 1.5"L

Part No.	Product No.	Amp	1	10	100
1772897	KTK-30 ♠	30.0	$14.49	$13.19	$12.47

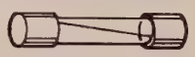
♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Crystals are available online at www.Jameco.com/Passives

JAMECO ValuePro 1¼" x ¼" Standard Fuses

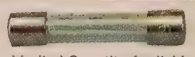
Fast Acting Fuses (250V) AGC/3AG Fuses



- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	1000
69404	250mA ♻	AGC-250mA	$.52	$.41	$.367
10410	500mA ⊕	AGC-1/2	.23	.21	.17
10373	1A ♻	AGC-1	.341	.205	.188
197528	1.6A ⊕	AGC-1.6	.20	.18	.135
10382	2A ♻	AGC-2	.24	.144	.132
69439	3A ♻	AGC-3	.334	.201	.184
197544	4A ⊕	AGC-4	.264	.24	.216
10401	5A ⊕	AGC-5	.22	.20	.18
197552	6.3A ⊕	AGC-6.3	.264	.24	.216
69462	10A ⊕	AGC-10	.30	.264	.24
186301	16A	—	.25	.213	.159

Slow Blow Fuses (250V) MDL/3AG Fuses

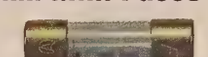


○ Blue Part No. = Limited Quantity Available

Part No.	Amps	Cross Ref.	1	10	100	1000
25654	250mA ⊕ ○	MDL-1/4	$.62	$.56	$.446	$.335
25689	500mA ⊕	MDL-1/2	.65	.59	.472	.354
25639	1A ♻	MDL-1	.68	.61	.49	.368
25646	2A	MDL-2	.51	.43	.41	.37
69535	3A ♻	MDL-3	.49	.47	.45	.337
25672	5A ♻	MDL-5	.54	.486	.389	.292
69570	10A ♻	MDL-10	.90	.78	.62	.465

JAMECO ValuePro 5mm x 20mm Mini Fuses

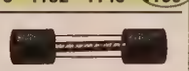
Fast Acting Fuses (250V) GMA Fuses



- Recommended for new designs ○ Blue P/N = Limited Qty.
- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	500	1000
103887	250mA ♻	GMA-250mA	$.35	$.20	$.147	$.133
102040	500mA ⊕ ○	GMA-500mA	.20	.15	.11	.10
103907	1A ⊕ ○	GMA-1	.20	.15	.11	.10
103916	2A ♻	GMA-2	.305	.22	.159	.147
103924	3A ♻	GMA-3	.335	.301	.214	.16
103932	5A ♻	GMA-5	.178	.152	.145	.109

Slow Blow Fuses (250V) GMD Fuses

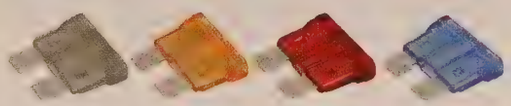


- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	1000
197502	500mA ♻	GMD-500mA	$.353	$.326	$.244
197465	1A ♻	GMD-1	.35	.28	.21
197472	2A ⊕	GMD-2	.39	.36	.27
197482	3.15A ♻	GMD-3.15	.40	.36	.33
197500	5A ♻	GMD-5	.468	.428	.388

Littelfuse Blade Fuses

ATO® Blade Fuses



1710522 1710549 1710590 1710565

- Voltage rating: 32VDC
- Interrupting ratings: 1000A @ 32VDC
- Operating temperature range: -40°C to 125°C

Minimum order 5 pieces

Part No.	Product No.	Amps	Color	5	100
1710522	257002.PXPV ♻	2.0	Gray	$.288	$.27
1710549	257005.PXPV ♻♠	5.0	Brown	.368	.348
1710590	25707.5PXPV ♻♠	7.5	Dk brown	.38	.35
1710557	257010.PXPV ♻♠	10.0	Red	.421	.353
1710565	257015.PXPV ♻♠	15.0	Aqua	.368	.308
1710573	257025.PXPV ♻♠	25.0	White	.252	.234
1710581	257040.PXPV ♻	40.0	Orange	.384	.353

MIDI® Blade Terminal



- Size: 41mmL x 12mmW x 8mmH

Part No.	Product No.	Amps	1	10	100
1712587	498040.M ♻♠	40.0	$4.99	$4.66	$4.31

Mini® Blade Fuses

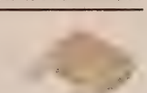


1710776 1710784 1710792 1710813

Minimum order 5 pieces

Part No.	Product No.	Amps	Color	5	100
1710768	297002.WXVN ♻♠	2.0	Gray	$.447	$.41
1710776	297003.WXNV ♻♠	3.0	Violet	.447	.41
1710784	297004.WXNV ♻♠	4.0	Pink	.447	.41
1710792	297010.WXNV ♻♠	10.0	Red	.447	.41
1710805	297015.WXNV ♻♠	15.0	Aqua	.447	.41
1710813	297020.WXNV ♻♠	20.0	Yellow	.447	.41

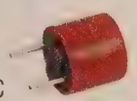
MAXI™ Blade Fuse



- Color: white

Part No.	Product No.	Amps	1	10	100
1710899	299080.ZXNV ♻♠	80	$2.65	$2.47	$2.28

Littelfuse Subminiature Fuses



TR5

- Base/cap: brown thermoplastic polyamide PA 6.6, UL94V-0
- Round pins: copper, tin plated
- Operating temp. range: -40°C to 85°C

No. 372/TR5® Time Lag

- Size: 8.5mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing • 250V • UL/CUL/VDE

Part No.	Product No.	Amps	1	10	100
1713459	3721200041	2.0	$.52	$.469	$.431
1713483	3721400041	4.0	.65	.60	.45
1713491	3721500041 ♠	5.0	.65	.60	.45

No. 374/TR5® Time Lag

- Size: 8.5mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing • 250V • UL/CUL/CSA

Part No.	Product No.	Amps	1	10	100
1713580	3740500041	0.5	$.85	$.79	$.59

No. 373/TR5® Quick Acting

- Size: 8.5mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing • 250V • UL/CUL/CSA

Part No.	Product No.	Amps	1	10	100
1713504	3730050041 ♠	0.500	$3.85	$3.58	$2.68
1713512	3730125041 ♠	0.125	.85	.79	.59
1713547	3731315041 ♠	3.150	.85	.79	.59

No. 396/TE5® Time Lag



- 4mm D x 8mm H x 4.3mm lead length x5.08mm lead spacing
- 125V • UL/CUL

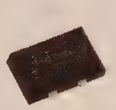
Part No.	Product No.	Amps	1	10	100
1713766	3961100044 ♠	1.0	$.94	$.87	$.65

Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com

EPSON Oscillators and Crystals

SMD High Frequency Crystal Oscillators



- General purpose with heat resisting cylindrical AT cut crystal unit
- Low current consumption by output enable or standby function
- Operating temp.: -20°C to 70°C • Aging: ±5 x 10^{-6}/year max.

Part No.	Product No.	Freq. (MHz)	Op. Volt.	Current Consump.	Output Load	Pricing 1	10	100
1914496	SG-615P 10.0000MC ♠	10	5V (±0.5)	23mA max.	50pF max.	$3.45	$2.48	$2.23
1914550	SG-615P 16.0000MC ♠	16	5V (±0.5)	23mA max.	50pF max.	3.45	2.47	2.21
1914576	SG-615P 20.0000MC ♠	20	5V (±0.5)	23mA max.	50pF max.	3.45	2.47	2.23

Small SMD Low/Medium Frequency Crystal Unit



- Operating temp.: -40°C to 75°C • Aging: ±5 x 10^{-6}/year max.
- Load capacitance: 6pF to ∞ (12.5pF standard)

Part No.	Product No.	Frequency (kHz)	Series Resistance	Drive Level	Pricing 1	10	100
1867335	MC-306 32.7680K-A ♠	32.768	50kΩ max.	1µW max.	$.94	$.66	$.60

SMD High Frequency Crystal Unit



- Operating temp.: -20°C to 75°C
- Load capacitance: 10pF fundamental • Aging: ±5 x 10^{-6}/year max.

Part No.	Product No.	Frequency (MHz)	Series Resistance	Drive Level	Pricing 1	10	100
1866877	MA-506 16.000M-C ♠	16	40Ω max.	2mW max.	$1.11	$.79	$.71
1866826	MA-505 25.000M-C ♠	25	40Ω max.	2mW max.	1.11	.79	.71

Cylinder Low/Medium Frequency Crystal Unit



- Operating temp.: -10°C to 60°C • Tolerance: ±20ppm
- Load capacitance: 6pF to ∞ • Aging: ±3ppm/year max.

Minimum order 10 pieces

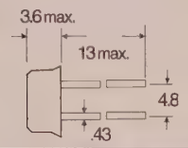
Part No.	Product No.	Frequency (kHz)	Series Resistance	Drive Level	Pricing 10	100
1846825	C-002RX 32.7680K-E ♠	32.768	45kΩ max.	1mW max.	$.179	$.161
1846817	C-002RX 32.7680K-A ♠	32.768	45kΩ max.	1mW max.	.224	.21
1846796	C-001R 32.7680K-A ♠	32.768	45kΩ max.	1mW max.	.215	.201

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

HC49/S Case (Low Profile Crystals)

- Frequency range: 3.5 to 70.0MHz
- Operating temperature: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging: ±5ppm/year max.
- Frequency stability tolerance: ±50ppm



Quantity Save

Part No.	Comparable:	Freq. (MHz)	Imped.	Max. Resist.	Pricing 1	Pricing 10
137832	CY4LP	4.000	17pF	120Ω	$.46	$.345
137875	CY11.05LP	11.0592	Series	50Ω	1.05	.81
137891	CY16LP	16.000	Series	40Ω	.44	.33

FOX HC49/U Type Crystals

- Frequency tolerance @ 25°C: ±30ppm
- Frequency stability: ±50ppm
- Operating temperature: -20°C to 70°C
- Dimensions: 11.05mmW (max.) x 13.46mmH (max)

✳ Minimum order 5 pieces

Part No.	Prod. No.	Freq.	Imped.	1	5	100
1592546	FOX18S♠	1.8432	13pF	$1.39	$1.23	$1.04
1592571	FOX040♠	4.0	20pF	✳	.459	.37
1592669	FOX07320♠	7.3728	20pF	✳	.36	.34
1592677	FOX080♠	8.0	Series	✳	.35	.32
1592685	FOX08020♠	8.0	20pF	✳	.46	.37
1592765	FOX14720♠	14.7456	20pF	✳	.35	.33
1592773	FOX16020♠	16.0	20pF	✳	.45	.37

FOX SMD Oscillators

3.3V HCMOS output



- Standby function
- Frequency stability: ±100ppm
- Operating temp.: -10°C to 70°C
- Dimensions: 7.5mmW x 1.5mmH x 2mmD

Part No.	Product No.	Freq. (MHz)	Input Current	Pricing 1	Pricing 10	Pricing 100
1592415	F4100-200 ♻♠	20	15mA	$4.65	$4.35	$4.21
1592440	F4100-330 ♻♠	33.33	20mA	4.65	4.35	4.21
1592466	F4100-400 ♻♠	40	20mA	4.65	4.35	4.21
1592491	F4100-500 ♻♠	50	20mA	4.75	4.48	4.33
1592511	F4100-600 ♻♠	66	25mA	1.79	1.65	1.55
1592520	F4100-666 ♻♠	66.6	25mA	5.39	5.05	4.88

5.0V HCMOS/TTL output

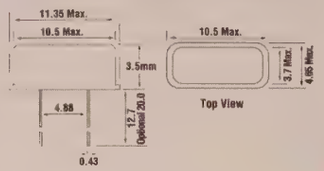


- Supply voltage: 5V
- Tri-state enable/disable
- Operating temp.: -10°C to 70°C
- Frequency stability: ±100ppm
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD

Part No.	Product No.	Freq. (MHz)	Imped.	Pricing 1	Pricing 10	Pricing 100
1592255	F3345-160 ♻♠	16	25mA	$4.45	$3.88	$3.28
1592263	F3345-200 ♻♠	20	25mA	1.69	1.60	1.53
1592301	F3345-400 ♻♠	40	45mA	4.45	3.88	3.28

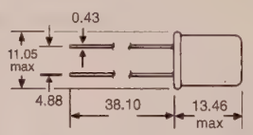
Crystals

- Frequency calibration tolerance: ±50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0mW maximum
- Shunt capacitance: 7pF maximum
- Freq. stability tolerance: ±50ppm from -10° to +60°C



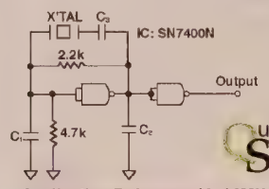
HC49/US Low Profile Case

JAMECO EXCLUSIVE



HC49/U (HC18/U) Case

Dimensions in millimeters



C1: 150-470 pF
C2: 220-820 pF
C3: Match crystal impedance

Quantity Save

Application Reference (4~14MHz) (parallel resonance)

HC49/US Low Profile Case

Part No.	Frequency (MHz)	Impedance	Pricing 1	Pricing 10	Pricing 100
324962	4.0 ♻	20pF	$.47	$.31	$.232
325068	20.0 ♻	20pF	.42	.336	.252
325025	24.0 ♻	20pF	.62	.57	.50

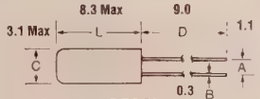
HC49/U (HC18/U) Case

Part No.	Frequency (MHz)	Impedance	Pricing 1	Pricing 10	Pricing 100
324364	4.0 ♻	Series	$.31	$.284	$.274
324268	20.0 ♻	20pF	.35	.299	.274
Great Prices on Special Buys✳					
102613	1.8432	18pF	$1.19	$1.10	$.82
101274	2.4576	32pF	.68	.56	.42
14525	3.2768	18pF	.35	.312	.246
14533	3.579545	18pF	.40	.37	.29
14592	4.0	20pF	.59	.54	.41
14728	8.0	Series	.34	.312	.234
14381	10.0	Series	.79	.69	.59
120061	11.0592	Series	.80	.71	.68
14402	12.0	Series	.80	.68	.50
14517	20.0	Series	.79	.69	.59

✳ Manufacturer may vary

Tuning Fork

- Operating temperature range: -10°C to +60°C
- Frequency tolerance: ±20ppm
- Aging for first year: ±3ppm (max. +25°C)
- Frequency: 32.768kHz • Drive level: 1mW



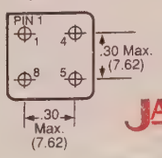
Part No.	Comparable to:	Imped.	1	10	100	1000
14584	CY32.76	10.5pF	$.89	$.79	$.69	$.52

TTL Oscillators (Half Can)

Specifications:



- Input voltage: +3.3VDC ±10%
- OSC series oscillators fit into a 14-pin DIP socket P/N 676385, below left
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.



JAMECO EXCLUSIVE

Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing 1	Pricing 10	Pricing 100
325526	4.0 ⊕	15mA	10ns	$1.65	$1.50	$1.33
354829	10.0 ⊕	25mA	5ns	1.99	1.88	1.41
325665	20.0 ⊕	30mA	10ns	1.65	1.47	1.22
325730	40.0 ♻	70mA	5ns	1.65	1.40	1.05
Great Prices on Special Buys✳						
325462	1.0	15mA	10ns	$1.49	$1.34	$1.17
325489	1.8432	15mA	10ns	1.65	1.40	1.05
102779	10.0	45mA	6ns	1.75	1.58	1.25

✳ Manufacturer may vary

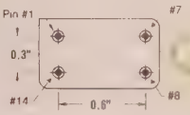
TTL Oscillators (Full Can)

Specifications:



- Input voltage: +5VDC ±0.5VDC
- OSC series oscillators fit into a14-pin DIP socket P/N 133006, web
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.

JAMECO EXCLUSIVE



Quantity Save

Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing 1	Pricing 10	Pricing 100
354917	20.0 ⊕	30mA	10ns	$1.69	$1.52	$1.16
Great Prices on Special Buys✳						
27861	1.0	7mA	15ns	$2.49	$2.20	$1.43
27879	1.8432	7mA	15ns	2.39	2.15	1.95
27924	2.0	7mA	15ns	1.31	1.19	.89
27967	4.0	7mA	10ns	1.99	1.79	1.59
27991	8.0	15mA	15ns	2.39	2.15	1.91
27887	10.0	15mA	10ns	1.99	1.79	1.59
27895	12.0	15mA	10ns	1.75	1.59	1.19
27908	16.0	15mA	10ns	1.49	1.35	1.01
27932	20.0	17mA	10ns	2.15	1.88	1.46
76822	33.0	18mA	6ns	1.99	1.69	1.27
76857	100.0	25mA	3ns	2.49	2.26	1.70

✳ Manufacturer may vary

We're Listening to Your Requests

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Kit and Refills are available online at www.Jameco.com/Passives

Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion



81875 (Capacitor Kit)

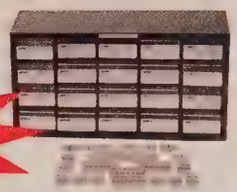
Each kit includes a 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319610), 30 adhesive labels for drawers to identify parts in kit, and all the electronic components listed in each kit.

20-drawer component cabinet with every kit!

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Cabinet is wall-mountable or free standing
- Cabinet: ABS-Black
- Weight: 4.6 to 6.4 lbs.

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill? Just call 1-800-831-4242



81832 (Resistor Kit)

Radial Electrolytic Capacitor Kit — SAVE $7

Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100µF @ 50V	1000µF @ 16V	1µF @ 50V	3.3µF @ 50V	22µF @ 50V
220µF @ 25V	2200µF @ 25V	1µF @ 100V	4.7µF @ 50V	47µF @ 50V
470µF @ 25V	3300µF @ 25V	2.2µF @ 50V	10µF @ 50V	100µF @ 25V

Part No.	Description	Wt. (lbs.)	1	10
81867	240 pcs. Radial Capacitor kit	5.3	$36.25	$34.35
130331	Refill for 81867 (240 pcs.)	0.3	29.99	27.95

Axial Electrolytic Capacitor Kit — SAVE $13

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47µF @ 50V	220µF @ 50V	1000µF @ 25V	1µF @ 50V	10µF @ 50V
100µF @ 50V	470µF @ 50V	2200µF @ 16V	4.7µF @ 50V	2.2µF @ 50V

Part No.	Description	Wt. (lbs.)	1	10
81875	140 pcs. Axial Capacitor kit	5.3	$45.55	$40.98

Mylar Capacitor Kit — SAVE $18

Includes 280 pcs. (10 values) 100V ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001µF	.022µF	.047µF	.47µF	.01µF
.0047µF	.033µF	.22µF	1µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
81883	280 pcs. Mylar Capacitor kit	5.1	$46.89	$44.45

Dipped Tantalum Capacitor Kit — SAVE $26

Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1µF @ 35V	1µF @ 25V	3.3µF @ 35V	10µF @ 16V	22µF @ 16V
.22µF @ 35V	1µF @ 35V	4.7µF @ 35V	10µF @ 35V	33µF @ 25V
.47µF @ 35V	2.2µF @ 16V	6.8µF @ 35V	15µF @ 25V	47µF @ 25V

Part No.	Description	Wt. (lbs.)	1	10
81841	150 pcs. Tantalum Capacitor kit	4.8	$87.95	$79.95
130260	Refill for 81841 (150 pcs.)	0.3	80.89	76.86

Ceramic Disc Capacitor Kit — SAVE $14

Includes 520 pcs. (10 values) 50V ±20% Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022µF	.01µF
22pF	100pF	.001µF	.047µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
81859	520 pcs. Ceramic Capacitor kit	5.0	$38.45	$34.62
130232	Refill for 81859 (520 pcs.)	0.3	23.45	20.95

Monolithic Ceramic Capacitor Kit — SAVE $6

Includes 280 pcs. (10 values) 50V ±20% Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001µF	.047µF	.47µF	.01µF
100pF	.0022µF	.22µF	1µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
171475	280 pcs. Monolithic Capacitor kit	5.0	$31.15	$29.25
171483	Refill for 171475 (280 pcs.)	0.3	28.89	27.43

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.2kΩ	2.7kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	1.5kΩ	3.3kΩ	20kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2kΩ	5.1kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.2kΩ	5.6kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
81832	540 pcs. 1/4-watt Resistor kit	4.9	$31.59	$28.19
103166	Refill for 81832 (540 pcs.)	0.2	12.95	11.49

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
107879	540 pcs. 1/2-watt Resistor kit	5.1	$29.95	$26.95
107853	Refill for 107879 (540 pcs.)	0.4	15.69	14.17

1/2-Watt Single Turn Cermet Pot Kit — SAVE $12

See page 69 (63P Series) for photos and specs.

Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P2kΩ	63P10kΩ	63P50kΩ	63P500kΩ
63P1kΩ	63P5kΩ	63P20kΩ	63P100kΩ	63P1MΩ

Part No.	Description	Wt. (lbs.)	1	10
85032	100 pcs. single turn Pot kit	4.9	$77.95	$73.45

3/4-Watt 15 Turn Cermet Pot Kit — SAVE $23

See page 69 (43P Series) for photos and specs.

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P2kΩ	43P10kΩ	43P50kΩ	43P500kΩ
43P1kΩ	43P5kΩ	43P20kΩ	43P100kΩ	43P1MΩ

Part No.	Description	Wt. (lbs.)	1	10
85041	100 pcs. 15 turn Pot kit	4.9	$89.95	$79.95

www.Jameco.com



For more Component Cabinet Kit Refills visit our website today.

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Coaxial, Paired, Multi-Conductor Cable & Hook-Up Wire

Color Code Legend: New Sale Lower$ QtySave

Additional Belden Cable is available online at www.Jameco.com/Prod/Belden

Belden Coaxial Cable

Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. For our complete line of Belden products, please visit www.Jameco.com/Belden.

75Ω Standard Analog Video Cable

20 AWG solid .032" solid bare copper



- Duofoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .234" • Color: black

Part No.	Product No.	Description	1	5	10
734089	1505A-500-10	500' reel	$214.35	$192.80	$183.62

Belden Paired Cable

Belden paired cables allow balanced signal transmission, which results in lower cross talk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit www.Jameco.com/Belden.

- Chrome PVC jacket • Tinned copper • Twisted pairs
- Tinned copper drain wire • Overall 100% BELDFOIL® shield (for shielded cables)

Audio, Control, and Instrumentation Cable Non-Plenum

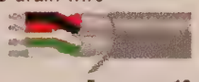
22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire



- Polypropylene insulation • Paper wrap
- Black PVC jacket • Nominal capacitance: 111pF/m
- Nominal outer diameter: 0.138"

Part No.	Product No.	No. of Pairs	Description	1	5	10
733112	8451-100-10	1	100' reel (black)	$23.99	$22.31	$21.76
734063	8451-U500-10	1	500' unreel box (black)	118.75	107.91	93.75
734062	8451-U1000-10	1	1000' unreel box (blk)	243.39	233.14	205.95

22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire



- Polypropylene insulation • Nominal capacitance: 115pF/m
- Nominal outer diameter: 0.168" • Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
734180	8723-100-60	2	100' reel	$35.09	$32.92	$31.87
734182	8723-500-60	2	500' reel	173.99	151.23	137.56
734181	8723-1000-60	2	1000' reel	272.65	267.32	262.08

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

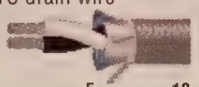


- Tinned copper, twisted pair • Color: chrome
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m • Nominal outer diameter: 0.222"

Part No.	Product No.	No. of Pairs	Description	1	5	10
734185	8760-100-60	1	100' reel	$34.99	$32.49	$29.99
734187	8760-500-60	1	500' reel	166.19	150.81	143.26

Paired Line Level Analog Audio Cable

14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire



- Polyethylene insulation • Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.355" • Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
733172	8720-100-60	1	100' reel	$69.99	$65.99	$60.99

Belden Multi-Conductor Cable

Multi-Conductor Audio, Control & Instrumentation Cables Non-Plenum

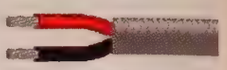
22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire



- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: 0.199" • Color: chrome

Part No.	Product No.	Conductors	Description	1	5	10
733235	8771-100-60	3	100' reel	$34.99	$29.99	$27.99
733243	8771-500-60	3	500' reel	163.85	160.65	157.44

22 AWG stranded (7 x 30) unshielded

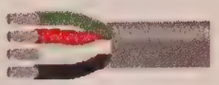


8442 Series

- PVC insulation • Color: chrome



8443 Series



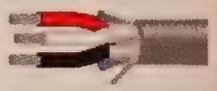
8444 Series



8445 Series

Part No.	Product No.	Conductors	Description	1	5	10
732996	8442-100-60	2	100' reel	$22.39	$20.29	$18.43
733008	8442-500-60	2	500' reel	92.45	87.59	82.73
734055	8442-U500-60	2	500' unreel box	84.49	75.99	69.99
734054	8442-U1000-60	2	1000' unreel box	172.95	154.76	135.82
733024	8443-100-60	3	100' reel	30.15	28.66	27.25
733032	8443-500-60	3	500' reel	124.19	117.61	111.11
733059	8444-100-60	4	100' reel	38.05	33.15	30.15
733067	8444-500-60	4	500' reel	161.55	143.37	132.33
734059	8444-U500-60	4	500' unreel box	165.45	134.44	124.10
733075	8444-1000-60	4	1000' reel	308.59	294.82	282.75
733083	8445-100-60	5	100' reel	50.15	44.34	37.02
734061	8445-U500-60	5	500' unreel box	199.99	181.80	166.68

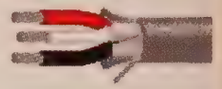
20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire



- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: 0.218" • Color: chrome

Part No.	Product No.	Conductors	Description	1	5	10
734253	8772-U1000-60	3	1000' unreel box	$327.49	$317.68	$308.15

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

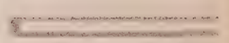


- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.246" • Color: chrome

Part No.	Product No.	Conductors	Description	1	5	10
733201	8770-100-60	3	100' reel	$59.99	$54.99	$49.99

Bus Bar Hook-Up Wire

In accordance with performance requirements of Federal Specs. QQ-W343G.



- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
734165	8020-100	20 AWG, 100' reel	$23.89	$20.15	$16.40

Belden Hook-Up Wire – UL/CSA Dual Rated AWM Styles 1007/1569

Applications: Inter-connection circuits, internal wiring of computer and data processing equipment, appliances & automotive. Appliance Wiring Material is Underwriter Laboratories' recognized covering of insulated wire and cable intended for internal wiring of appliances and equipment.

- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment • Tinned copper • PVC insulated • 100' reel



Product No.	AWG	Stranding	Brown P/N	Red P/N	Orange P/N	Yellow P/N	Green P/N	Violet P/N	Gray P/N	White P/N	Black P/N	Dk Blue P/N	1	5	10
9928-100	28	7 x 34	734602	734603	734604	734605	734606	734608	—	734610	734611	734614	$19.99	$16.34	$14.99
9926-100	26	7 x 32	734502	734503	734504	734505	734506	734508	—	734510	734511	734514	21.35	17.45	16.15
9923-100	24	7 x 32	734402	734403	—	734405	734406	—	—	734410	734411	—	22.45	22.28	21.10
9921-100	22	7 x 30	734302	734303	734304	734305	734306	734308	734309	734310	734311	734314	26.19	25.37	24.55
9919-100	20	7 x 28	734202	734203	734204	734205	734206	734208	734209	734210	734211	734214	32.19	31.20	30.21
9916-100	16	26 x 30	734002	734003	734004	734005	734006	734008	734009	734010	734011	734014	53.99	48.96	36.72

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

UL 1430 Stranded Hook-Up Wire



- Temperature rating: 105°C • Voltage: 300V • 18/20 AWG
- Average wall thickness: 0.016 • **Sold in 100' rolls**

Part No.	Gauge	Color	Strands	Dia. (in.)	Dia. (mm)	1	10	25
307918	18	Black	19 x 30	0.082	2.083	$23.35	$21.00	$18.90
307926	18	Red	19 x 30	0.082	2.083	23.35	20.77	18.90
305015	18	Orange	7 x 26	0.082	2.083	23.95	20.35	15.26
307897	20	Black	7 x 28	0.070	1.778	23.95	20.35	15.26
307900	20	Red	7 x 28	0.070	1.778	27.55	23.42	17.57

Solid Hook-Up Wire – 22 AWG



- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test • MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 202

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36768	122BE/C♻	Blue	$6.59	36776	122BE/K♻	Blue	$59.99
36792	122BK-R/C♻	Black	6.59	36805	122BK/K♻	Black	49.99
36822	122G-R/C♻	Green	6.59	36840	122G/K♻	Green	49.99
36856	122R/C♻	Red	8.15	36864	122R/K♻	Red	49.99
36881	122W-R/C♻	White	6.59	36899	122W/K♻	White	49.99
36920	122Y/C♻	Yellow	6.59	36928	122Y/K♻	Yellow	49.99

UL 1007 Stranded Hook-Up Wire



300 Volts

- 80°C • PVC insulation
- Temperature range: -40°C to +80°C
- CSA: TR-64 • **Sold in 100' rolls**

JAMECO EXCLUSIVE

Blue Part No. = Limited Quantity

Part No.	Cross Ref.	AWG	Color	1	5	10
126085	UL1007-22-BK-C♻	22 (7x30)	Black	$4.09	$3.83	$3.59
126034	UL1007-22-RD-C♻	22 (7x30)	Red	4.09	3.83	3.59
126077	UL1007-22-WH-C♻	22 (7x30)	White	7.99	7.49	6.99
310852	UL1007-22-GR-C♻	22 (7x30)	Green	7.99	7.49	6.99
310878	UL1007-22-YL-C♻	22 (7x30)	Yellow	7.99	7.49	6.99
125840	UL1007-20-BK-C⊕	20 (10x30)	Black	9.99	9.49	8.99
125795	UL1007-20-RD-C♻	20 (10x30)	Red	9.99	9.49	8.99
125831	UL1007-20-WH-C⊕ ✪	20 (10x30)	White	9.99	9.49	8.99
310894	UL1007-20-GR-C♻	20 (10x30)	Green	9.99	9.49	8.99
310915	UL1007-20-YL-C♻	20 (10x30)	Yellow	9.99	9.49	8.99
310922	UL1007-20-BL-C⊕	20 (10x30)	Blue	9.99	9.49	8.99
125787	UL1007-18-BK-C♻	18 (16x30)	Black	12.99	12.49	11.99
125736	UL1007-18-RD-C♻	18 (16x30)	Red	12.99	12.49	11.99
125752	UL1007-18-WH-C♻	18 (16x30)	White	12.99	12.49	11.99
310932	UL1007-18-GR-C♻	18 (16x30)	Green	12.99	12.49	11.99
310949	UL1007-18-YL-C⊕	18 (16x30)	Yellow	12.99	12.49	11.99
310958	UL1007-18-BL-C♻	18 (16x30)	Blue	12.99	12.49	11.99

Kynar™ Wire-Wrap Wire – 30 AWG



22542

- Assorted color coded insulation • Used for prototyping
- Color coded Kynar™ (Polyvindene Fluoride) insulation
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C
- Passes UL VW-1 flame test
- Wire wrap tools, pg 189 • See pg 109 for sockets

Part No.	Color	100 ft.	Part No.	Color	1000 ft.
22542	Blue♻	$6.09	22551	Blue♻	$43.49
22577	Black♻	6.99	22585	Black♻	43.49
22631	Red♻	6.29	22649	Red♻	43.49
22665	White♻	6.59	22673	White♻	43.49
22606	Green♻	6.29	22614	Green♻	38.25
22700	Yellow♻	5.79	22702	Yellow♻	43.49

3M Flat Ribbon Cable



- 0.05" centers, 28AWG (7x36) tinned stranded copper
- Insulation material: polyvinyl chloride (PVC)
- Voltage rating: 300V • Impedance: 102Ω unbalanced
- Capacitance: 14.47pF/ft. • Inductance: 0.15µH/ft.
- Temp. rating: -20°C to 105°C • Color: gray

Part No.	Product No.	Conductors	Length (ft.)	1	5	10
1643788	3365/14♠	14	100	$28.85	$27.39	$26.18
1643796	3365/16♠	16	100	35.35	32.14	29.91
1643809	3365/20♠	20	100	44.19	39.14	37.40
1643817	3365/26♠	26	100	57.45	52.21	48.61
1643833	3365/40♠	40	100	82.89	78.74	74.80
1643841	3365/50♠	50	100	110.45	100.43	93.48

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

Gray Flat Ribbon Cable – 28 AWG

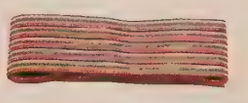


- Single edge red stripe for pin 1 orientation • Center spacing: 0.05"
- Insulation: polyvinyl chloride (PVC) • Voltage rating: 300V
- Temp. rating: -20°C to +80°C
- Stranded copper wire
- 28 AWG (7 x 36)
- **Prepackaged and priced in increments listed below**

JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	Conductors	Length	1	25	50
643815	171-10-100♻	10	100' reel	$15.19	$14.51	$13.85
643840	171-16-25♻	16	25'	8.79	8.39	7.99
643858	171-16-100♻	16	100' reel	23.99	23.37	22.79
643891	171-20-100♻	20	100' reel	30.69	27.63	24.86
643938	171-25-100♻	25	100' reel	35.19	33.53	31.94
643989	171-26-100♻	26	100' reel	34.39	32.67	31.04
644050	171-34-100♻	34	100' reel	43.55	41.36	39.29
644092	171-37-100♻	37	100 reel	46.89	45.00	33.75
644113	171-40-10♻	40	10'	10.25	9.16	6.87
644121	171-40-25♻	40	25'	21.55	19.99	18.99
644130	171-40-100♻	40	100' reel	57.59	54.71	51.95
644156	171-50-10♻	50	10'	8.99	8.49	7.99
644164	171-50-25♻	50	25'	19.35	18.29	17.35
644172	171-50-100♻	50	100' reel	66.55	63.18	60.03
644210	171-60-100♻	60	100' reel	83.09	77.80	58.35

Multicolor Flat Ribbon Cable – 28 AWG



- Standard 10-color repeat sequence
- Stranded copper wire
- 28 AWG (7 x 36)
- Center spacing: 0.05"
- Voltage rating: 300V
- Temperature rating: -20°C to +80°C
- **Prepackaged and priced in increments listed below**

JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	Conductors	Length	1	25	50
643508	28RC10-25♻	10	25'	$10.19	$9.15	$8.25
643516	28RC10-100♻	10	100' reel	28.89	26.37	23.85
643541	28RC16-25♻	16	25'	16.29	14.75	13.29
643559	28RC16-100♻	16	100' reel	52.19	46.95	42.26
643583	28RC20-25♻	20	25'	16.99	15.49	13.99
643591	28RC20-100♻	20	100' reel	65.25	58.70	52.83
643621	28RC25-25♻	25	25'	22.99	21.84	16.38
643639	28RC25-100♻	25	100' reel	59.99	56.99	54.15
643671	28RC34-100♻	34	100' reel	89.55	85.08	80.82
643701	28RC40-25♻	40	25'	49.49	36.49	27.37
643719	28RC40-100♻	40	100' reel	105.99	101.99	98.99
643743	28RC50-25♻	50	25'	50.99	45.49	40.99
643751	28RC50-100♻	50	100' reel	163.15	146.75	132.11

Committed to You | We're committed to providing you with the best service in the industry.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.

Color Code Legend: New Sale Lower$ QtySave

Additional Cable is available online at www.Jameco.com/Cable

RG Type Bulk Coaxial Cable

- For ethernet, oscilloscopes

RG58/U & RG58A/U (50Ω):
- Nominal capacitance: 27pF/ft.; center resistance: 10.4Ω/1000ft. @ 77°F

RG174/U (50Ω):
- Nominal capacitance: 30.8pF/ft.; center resistance.: 97Ω/1000ft. @ 77°F

JAMECO EXCLUSIVE



Part No.	Cross Ref No.	Type	Description	Length	1	25	50
644771	10X1-041TH-100	RG58A/U	20 AWG stranded	100'	$23.75	$22.49	$21.35
644789	10X1-041TH-1000	RG58A/U	20 AWG stranded	1000'	187.49	178.19	169.19
644818	RG174/U-100	RG174/U	26 AWG stranded	100'	23.75	22.49	21.35
644826	RG174/U-1000	RG174/U	26 AWG stranded	1000'	223.09	211.93	158.95

2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Stranded copper wire (7 x 32)
- Operating voltage: 300V
- Temperature rating: 20°C to 60°C

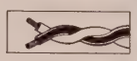
JAMECO EXCLUSIVE



Part No.	Cross Ref. No.	Length	1	10	25
100280	224BK/C℟	100'	$6.55	$6.17	$5.86
100299	224BK/K℟	1000'	49.99	44.89	39.59

Twisted Paired Cable – 24 AWG

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Reduced EMI
- 80°C
- 300 V





Part No.	Cross Ref. No.	Color	100 ft.
173164	224BW/C℟	Black/white	$7.99
105912	224GW/C℟	Grn/white	7.99

Part No.	Cross Ref. No.	Color	1000 ft.
173172	224BW/K℟	Black/white	$69.95
105807	224GW/K℟	Grn/white	69.95
173156	224RW/K℟	Red/white	69.95

Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable
- PVC jacket
- 7 x 43 stranded
- Gray

JAMECO EXCLUSIVE



Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	25	50
644674	300-840SL-1000	4	1000	$46.69	$37.37	$35.75
644691	300-860SL-100	6	100	7.49	6.75	6.09
644703	300-860SL-1000	6	1000	49.99	47.49	46.13

Category 5e Network Cable

- 4 twisted pairs
- Nominal OD.: 0.189"
- Insulation: polyethylene
- Nominal impedance: 100
- UTP

JAMECO EXCLUSIVE



Solid: uses modular plug P/N 119343, pg 84
Stranded: uses modular plug P/N 79281, pg 84
- **Prepackaged and priced in increments listed below**

24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Cross Ref. No.	Description	Color	Length (ft.)	1	25
644551	10X5-701TH-100	Solid	Gray	100	$10.75	$10.38
644560	10X5-701TH-1000	Solid	Gray	1000	110.15	98.28
645731	10X5-704TH-1000	Solid	Blue	1000	99.99	94.99
644586	10X5-801TH-100	Stranded	Gray	100	21.59	19.43
644594	10X5-801TH-1000	Stranded	Gray	1000	159.99	143.99
644615	10X5-804TH-100	Stranded	Blue	100	21.59	16.19
644623	10X5-804TH-1000	Stranded	Blue	1000	199.95	189.99
645765	10X5-805TH-1000	Stranded	Red	1000	159.99	143.99
645790	10X5-802TH-1000	Stranded	Black	1000	175.95	143.99
645829	10X5-806TH-1000	Stranded	Yellow	1000	159.99	143.99

Multiconductor Shielded Computer Communication Cable – 24 AWG

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V
- Color: gray
- Drain wire
- 24 AWG (7 x 32 AWG)
- Shielded 100% w/ aluminum mylar
- **Prepackaged and priced in increments listed below**

JAMECO EXCLUSIVE



Part No.	Cross Ref. No.	Conductors	Diameter	Length (ft.)	1	25
644391	SC4-100℟	4	0.20"	100	$23.65	$22.48
644404	SC4-1000℟	4	0.20"	1000	167.99	159.59
644412	SC9-25℟	9	0.23"	25	16.29	15.19
644421	SC9-100℟	9	0.23"	100	39.55	37.57
644439	SC9-1000℟	9	0.23"	1000	337.45	320.61
644447	SC15-25℟	15	0.28"	25	22.89	22.13
644455	SC15-100℟	15	0.28"	100	58.75	55.86
644463	SC15-1000℟	15	0.28"	1000	515.99	490.19
644471	SC25-25℟	25	0.37"	25	22.25	21.15
644480	SC25-100℟	25	0.37"	100	85.19	80.94

Computer Cables

Disk Drive & SCSI Cables


32918


185076


72806


32715

Quantity Save

Part No.	Description	Length	1	10	100
32918	34-pin header socket ribbon cable for floppy to card	23"	$3.49	$2.97	$2.22
185076	40-pin IDE hard drive cable to card	14"	.95	.71	.53
72806	Two 40-pin header socket ribbon cable for IDE drive℟	18"	4.25	3.62	2.72
32715	50-pin header socket ribbon cable SCSI-I (18")	18"	4.29	3.80	3.22

AT/ATX Power Supply Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply

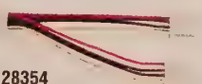
Quantity Save



Part No.	Length	AWG	1	10	100
170238	15"℟	18	$6.49	$6.16	$4.62

3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females


28354

Part No.	Drive	AWG	Length	1	10	100
28354	5.25"℟	18	5"	$2.99	$2.54	$1.91
277528	5.25"	20	6"	2.85	2.59	1.94
72304	3.5"℟	22	5"	3.29	2.99	2.63

Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts

Quantity Save


12408

Part No.	Description	1	10	100
12408	4' DB25 M-F℟	$5.09	$4.33	$3.25
208582	6' DB9 M-F℟	4.75	4.26	3.83

3.5" Disk Drive Power Adapter Cable

Quantity Save

- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies



Part No.	Length	AWG	1	10	100
28397	3.5"℟	22	$3.95	$3.36	$2.52

PS/2 Keyboard Extension Cables

- 6-pin mini DIN female-to-male
- Color: beige


28549

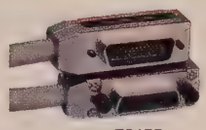
Part No.	Description	1	10	100
28549	PS/2 6' non-coiled℟	$4.35	$3.70	$2.78
111053	PS/2 10' non-coiled⊕	5.49	4.99	4.39

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

℟ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Computer Cables are available online at www.Jameco.com/Cable

IEEE 488 Cables


73155

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.

- Color: gray

Part No.	Description	1	10	25
73155	1 meter ≷	$39.39	$35.41	$31.85
115781	2 meter ⊕	38.35	34.53	31.25
115802	4 meter ≷	42.85	39.81	35.15

Serial Null Modem Cables

- Molded type connectors
- Color: gray


180698

181404/180698 Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7


180582

181438 Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)

180582 Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem)


180742

180742 Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8

Part No.	Description	1	10	50
181404	6' DB9 F to DB9 F ≷	$5.69	$5.09	$4.59
180698	10' DB9 F to DB9 F ≷	6.79	6.09	5.49
181438	6' DB25 M to DB9 F	4.95	4.49	3.95
180582	10' DB25 M to DB9 F	6.69	6.05	5.45
180742	10' DB25 F to DB9 F	7.39	6.65	5.99

VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles


134042

134042:
- HDDB15 female w/ hex nuts and HDDB15 male w/ thumbscrews

66165/148532:
- Thumbscrews on each end

Part No.	Description	1	10	100
134042	6' screws/hex nuts ≷	$4.75	$4.04	$3.03
66165	6' thumbscrews ⊕	7.49	6.78	6.10
148532	10' thumbscrews ≷	8.45	7.66	6.76

VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male


66174

Part No.	Description	1	10	100
66174	6' monitor cable ≷	$7.79	$7.07	$6.35
148523	10' monitor cable ⊕	7.25	6.49	5.79

Macintosh® Printer Cables

JAMECO VersaPro


10604

JAMECO EXCLUSIVE


130025

Part No.	Description	1	10	50
10604	6' mini DIN8M	$3.39	$3.22	$3.05
130025	10' mini DIN8M ≷	5.99	5.39	4.85

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

Switch Box Adapter Cables

6-pin mini DIN


174772

177261: Male to male non-coiled cable for P/N 79177 switch box, pg 173

174772: Male to male

174908: Male to male non-coiled

112628: Male to male non-coiled cable for P/N 79177 switch box, pg 173

Quantity Save

✪ Blue Part No. = Limited Quantity Available

Part No.	Length	Color	1	10	50
177261	2'	Gray	$2.95	$2.55	$1.89
174772	6'	Black	4.95	4.25	3.19
174908	6' ⊕ ✪	Gray	5.75	5.15	4.65
112628	10' ≷	Beige	7.95	6.76	5.07

RGB Video Cable

Quantity Save



- 75Ω coaxial cable
- Length: 6'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Color: black

Part No.	Description	1	10	25
73648	RGB video cable	$19.95	$16.99	$12.74

DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray


181286

Part No.	Description	Length	1	10	100
181286	DA15 M-M ⊕	6'	$6.59	$5.94	$5.34
181359	DA15 M-F ≷	6'	5.49	4.95	4.45

DB25-to-Centronics Parallel Printer Cable

- Molded and fully shielded DB25 male and 36-pin Centronics male connector
- IBM PC/XT and higher compatibles



Part No.	Description	1	10	100
28716	6' straight	$4.75	$4.28	$3.84

DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors

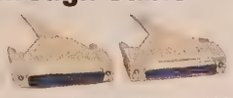
Quantity Save


31722

Part No.	Description	1	10	100
109584	1' serial, beige ≷	$4.35	$3.95	$3.49
189333	3' serial, beige	3.95	3.39	2.55
31722	6' serial, beige ≷	5.09	4.33	3.25
191361	6' serial, gray	4.79	4.35	3.43
155522	10' serial, beige ≷	4.09	3.66	3.25

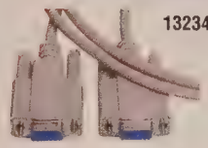
DC37 Straight Through Cable

- Molded connectors
- Color: gray
- Weight: 0.9 lbs.



Part No.	Description	1	10	100
181295	6' DC37 M-F ≷	$5.95	$5.49	$4.95

DB9 Extension Cables


132346


25701

- All lines connected straight through

132346/196366: DB9 female to DB9 female cable with thumbscrews

199639/25701/148516: DB9 male to DB9 female cable with thumbscrews

181666: DB9 male to DB9 male cable

Part No.	Description	1	10	100
132346	6' F-F ≷	$4.95	$4.49	$3.95
199639	6' M-F (blk) ≷	5.25	4.59	4.06
25701	6' M-F ≷	7.05	5.99	4.49
196366	10' F-F ≷	7.45	6.67	5.97
148516	10' M-F ≷	7.99	7.25	6.39
181666	10' M-M ≷	7.45	6.67	5.97

DB25 Extension Cables

- Use to lengthen your standard serial cable or for switch box applications
- All lines connected straight through

Quantity Save


67256

- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001/175291: black*

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	50	100
174001	3' M-M ⊕ *	$5.09	$4.61	$4.12	$3.70
401138	3' M-M ≷	5.35	4.81	3.85	2.89
65788	6' M-M ≷	7.79	7.07	6.35	5.87
39538	10' M-M	6.95	6.29	5.05	3.69
179979	15' M-M ⊕	8.35	7.52	6.76	5.95
67070	25' M-M ⊕	11.05	10.05	9.04	8.03
180435	50' M-M	14.95	13.49	10.79	8.27
164291	3' M-F ⊕	4.29	3.89	3.49	2.95
175291	3' M-F ≷ *	3.15	2.86	2.40	1.69
67256	6' M-F ⊕ ✪	7.75	6.95	6.30	5.63
39511	10' M-F ⊕	8.15	7.49	6.74	5.06
177279	15' M-F	9.49	8.54	6.83	5.12
101996	25' M-F ≷	12.25	11.07	9.94	8.16
181201	50' M-F	17.95	15.11	11.33	8.61
224267	6' F-F ≷	7.49	6.74	5.39	4.04

Digital Camera USB 2.0 Cable

- Color: black
- Length: 6 ft.
- For use w/ digital cameras, memory card readers, etc.



Part No.	Product No.	1	10
673694	USB-A to mini 5-pin	$2.75	$2.35

USB 1.1 Cable

USB-A Male to USB-B Male



Part No.	Description	1	10	25
169359	6' cable	$2.05	$1.83	$1.55

9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5

Quantity Save



Part No.	Description	1	10	100
162915	DB9 male to DB9 female	$2.95	$2.51	$1.88

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional USB Cables are available online at www.Jameco.com/Cable

USB 2.0 Cables



USB-A (M) to USB-A (M) | USB-A (M) to USB-B (M) | USB-A (M) to USB-A (F)

- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products

USB-A Male to USB-A Male

See page 209 for more USB Cables

Part No.	Description	1	10	25
326474	3' cable beige ≷	$1.55	$1.39	$1.29
229682	6' cable beige ≷	2.45	2.38	1.79
222033	6' cable black	1.65	1.49	1.39
229690	10' cable beige ⊕	3.25	3.24	2.43
222050	15' cable black	2.85	2.59	2.49

USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711	3' cable beige ≷	$1.55	$1.39	$1.29
222608	3' cable black ≷	1.55	1.39	1.29
229585	3' cable clear	1.55	1.32	.99
229730	6' cable beige ≷	1.65	1.49	1.39
222010	6' cable black ≷	1.65	1.49	1.39
229594	6' cable clear ≷	1.65	1.49	1.39
229738	10' cable beige ≷	1.89	1.75	1.65
222018	10' cable black ≷	1.89	1.75	1.65
229607	10' cable clear ≷	1.89	1.75	1.65
229762	15' cable beige ≷	2.85	2.59	2.49
222026	15' cable black ≷	2.85	2.59	2.49
229614	15' cable clear ⊕	2.75	2.28	1.71

USB-A Male to USB-A Female

Part No.	Description	1	10	25
326482	3' cable beige ≷	$1.55	$1.39	$1.29
229771	6' cable beige ≷	1.65	1.49	1.39
222068	6' cable black	1.65	1.49	1.39
229622	6' cable clear ⊕	1.65	1.40	1.05
229789	10' cable beige ≷	1.89	1.75	1.65
222076	10' cable black	1.89	1.75	1.69
229797	15' cable beige ≷	2.85	2.59	2.49
222084	15' cable black	2.85	2.59	2.49
229649	15' cable clear ⊕ ✪	3.05	2.90	2.75

✪ Blue Part No. = Limited Quantity Available

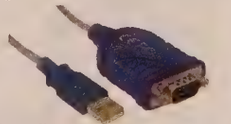
USB-A Cable with Bracket



- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long

Part No.	Description	1	10	25
144813	Female panel mount	$3.99	$3.79	$3.59

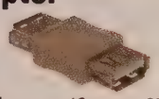
USB-to-DB9 Serial Adapter



- USB-A to DB9 male • Length: 13"
- Supports automatic handshake mode
- Over 230kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters

Part No.	Description	1	10
387954	USB-A to DB9 ≷	$17.95	$16.15

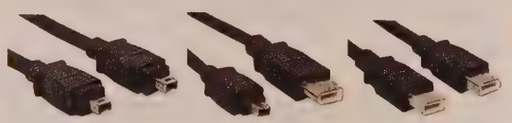
USB Gender Adapter



- USB-A female to USB-A female
- Dimensions: 1.5"L x 0.7"W

Part No.	Description	1	10	25
316806	USB-A female ⊕	$2.95	$2.73	$2.60

IEEE 1394 Firewire Cables



175821 | 175839 | 175848

- IEEE-1394 compliant • UL approved
- Molded connectors

4-pin Male to 4-pin Male

Part No.	Description	1	10	25
175821	6' cable black ⊕	$5.59	$5.05	$4.55

4-pin Male to 6-pin Male

Part No.	Description	1	10	25
175839	6' cable black ⊕	$5.59	$5.05	$4.55

6-pin Male to 6-pin Male

Part No.	Description	1	10	25
175848	6' cable black ≷	$5.59	$5.05	$4.55

Network Crossover Cables



- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP

CAT 5e

Quantity Save

Part No.	Length	Color	1	10	100
681109	3 ft.	Gray	$3.25	$2.76	$2.07
302041	6 ft.	Gray	3.75	3.39	3.05
681117	7 ft.	Gray	5.25	4.46	3.35
685812	7 ft.	Yellow	4.75	4.45	3.34
169261	10 ft. ≷	Gray	9.25	8.31	7.44

CAT 6

Part No.	Length	Color	1	10	100
681096	7 ft.	Gray	$10.85	$9.22	$6.92

"EZ" RJ45 Connector



Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

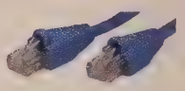
- For solid or stranded wire • 8P8C plug
- Use standard modular crimping tool

Part No.	Product No.	1	10	100	250
158115	RJ45 (8P8C) ⊕	$1.75	$1.58	$1.42	$1.25

We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to NewProducts@Jameco.com.

Category 6 Network Cables



- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6

LOWER PRICES

Part No.	Length	Color	1	10	50
219707	3 ft. ≷	Gray	$2.79	$2.39	$1.78
219715	7 ft. ≷	Gray	3.99	3.87	3.68
219723	14 ft. ≷	Gray	6.59	6.37	6.05
219731	25 ft. ≷	Gray	8.59	7.94	6.92
219740	50 ft. ≷	Gray	12.89	11.76	9.11
219854	3 ft. ≷	Blue	2.79	2.39	1.78
219862	7 ft. ≷	Blue	3.99	3.87	3.68
219871	14 ft. ≷	Blue	6.59	6.37	6.05
219889	25 ft. ≷	Blue	8.59	7.94	6.92
219897	50 ft. ≷	Blue	12.89	11.76	10.03
220003	3 ft. ≷	White	2.79	2.39	1.78
220011	7 ft. ≷	White	3.99	3.87	3.68
219900	3 ft. ≷	Red	2.79	2.39	1.78
219918	7 ft. ≷	Red	3.99	3.87	3.68
219934	25 ft. ≷	Red	8.59	7.94	5.95
219942	50 ft. ≷	Red	12.89	11.76	8.82
219803	3 ft. ≷	Green	2.79	2.39	1.78
219811	7 ft. ≷	Green	3.99	3.87	3.68
219820	14 ft. ≷	Green	6.59	6.37	6.05
219766	7 ft. ≷	Black	3.99	3.87	3.68
219774	14 ft. ≷	Black	6.59	6.37	6.05
219782	25 ft. ≷	Black	8.59	7.94	6.92
219969	7 ft. ≷	Yellow	3.99	3.87	3.68
219993	50 ft. ≷	Yellow	12.89	11.76	8.82

Category 5e Network Cables



- UTP • 350 MHz
- 8P8C • 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance

LOWER PRICES

Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	$1.79	$1.49	$1.39
168305	7 ft. ≷	Gray	3.59	3.11	2.87
168313	15 ft.	Gray	7.49	6.23	5.67
168321	25 ft.	Gray	7.99	6.79	6.39
201777	3 ft. ≷	Red	1.79	1.49	1.39
201785	7 ft.	Red	3.49	3.00	2.77
201793	15 ft.	Red	7.49	6.23	4.45
201806	25 ft. ≷	Red	9.59	8.15	7.67
201697	3 ft. ≷	Black	1.79	1.49	1.39
201700	7 ft. ≷	Black	3.49	3.00	2.77
201718	15 ft.	Black	7.49	5.23	5.09
201726	25 ft. ≷	Black	9.59	8.15	7.67
201734	3 ft.	Blue	1.79	1.49	1.39
201742	7 ft. ≷	Blue	3.59	3.11	2.87
201751	15 ft.	Blue	7.49	6.23	5.67
201769	25 ft. ≷	Blue	8.79	7.47	6.99
201814	3 ft. ≷	Yellow	1.79	1.49	1.39
201822	7 ft.	Yellow	3.59	3.11	2.87
201831	15 ft.	Yellow	7.49	6.23	5.67
201849	25 ft. ≷	Yellow	9.59	8.15	7.67

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Modular Plugs & Jacks are available online at www.Jameco.com/Cable

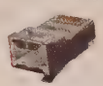
Modular Plugs



103491 79290 79273 79281 119343

P = No. of positions
C = No. of contacts
W/E = Western Electric type number

JAMECO EXCLUSIVE



116611

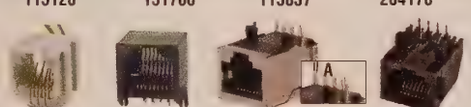
✳ **Prepackaged: Please order in increments of 10**

Part No.	Description	W/E	1	10	100	1000
103491	4P4C (handset)	616	✳	$.132	$.117	$.088
79290	6P4C (RJ11)	623	✳	.142	.117	.088
79273	6P6C (RJ11)	623	.25	.22	.195	.18
79281	8P8C (RJ45) (for stranded wire)	641	.47	.38	.28	.25
119343	8P8C (RJ45) unshielded (for solid wire)	—	.45	.424	.338	.264
116611	8P8C (RJ45) shielded ♻	—	1.09	.99	.89	.79
116602	8P8C (RJ45) shielded (for solid wire) ♻	—	.99	.79	.65	.49
180646	10P10C (for stranded wire) ⊕	—	1.69	1.37	.94	.86

Modular Jacks



115128 151766 115837 204178



124039 115844 203449 1537416

- Voltage rating: 150VAC max. • PC mount
- Contact current rating: 1.5A max. @ 25°C
- Durability: 750 mating cycles

*W/E = Western Electric type number

JAMECO EXCLUSIVE

Part No.	Description	W/E*	1	10	100
115128	4P4C (handset) 0.395"W ⊕	—	$.41	$.361	$.316
151766	6P4C (RJ11) side flange ♻	AMP	.55	.507	.46
115837	6P6C (RJ11) side flange ♻	—	.81	.74	.65
204178	6P6C (RJ11) dual ♻	—	1.49	1.35	1.19
124039	6P6C (RJ11) 6" leads ♻	—	1.25	1.15	.99
115844	8P8C (RJ45) ⊕	641	.54	.494	.45
204215	8P8C (RJ45) 0.81"L ♻	—	1.19	1.09	.95
203449	8P8C (RJ45) shielded Pin spacing "A" = 0.055" ⊕	—	1.39	1.18	.88
Great Prices on Special Buys ✳					
1537416	8P8C (RJ45) Low Profile	—	$.95	$.89	$.66

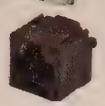
✳Manufacturer may vary

8-Position Modular Jacks & Plugs

Single Port Modular Jacks



524453



524488



524461

- Meets or exceeds FCC part 68 rules and regulations
- Current rating: 1.5A max. @ 25°C (derated)
- Voltage rating: 150VAC max.
- Housing: polyester 94V-0 rated
- Dielectric withstanding voltage: 1000VAC$_{RMS}$
- Contact: 0.014" thick phosphor bronze with 50µ" gold in contact area and 150µ" tin-lead on solder tails over nickel

Shielded

Part No.	Product No.	Position	1	25	50
524453	555153-1	Side entry, low profile	$1.33	$1.13	$.85

Unshielded

Part No.	Product No.	Position	1	25	50
524488	555416-1	Top entry	$.62	$.59	$.532
524461	555164-1	Side entry 12.6mm H	.67	.65	.61
958366	5555164-1 ♻	Side entry 12.6mm H	.61	.56	.53

Unshielded Modular Plug



- One piece construction with pre-loaded contacts
- Housing: polycarbonate UL94V-0 rated
- Current rating: 15A @ 150VAC
- Terminals: 0.014" thick phosphor bronze under-plated with 100µ" nickel, plated with 50µ" gold in contact region and gold flash on terminal
- Dielectric withstanding voltage: 1000VAC
- Insulation resistance: 5000MΩ
- Meets FCC rules and regulations part 68 and TIA/EIA 568A

Quantity Save

Part No.	Product No.	Description	1	25	50
524496	5-557315-3 ♻	Round solid	$.53	$.45	$.338

Professional Modular Connector Crimping Tool



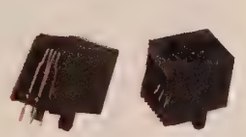
- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.

Part No.	Product No.	1	10	25
181148	HT200 ♻	$54.95	$49.49	$44.55

Modular Jacks NEW

AMP

- Housing: PBT polyester, black
- Terminal/plating: **A:** 0.35" thick phosphor bronze with 50µ" thick hard gold in localized gold plate area, 150µ" min. thick tin-lead in solder area; **B:** phosphor bronze w/ 50µ" gold in localized area, 150µ" matte tin in solder area; **C:** phosphor bronze w/ 15µ" gold in localized area, 80µ" tin-lead in solder area; **D:** phosphor bronze w/ 50µ" gold in localized area, 80µ" matte tin in solder area



852836 956301

Part No.	Product No.	Pos./Contact	Description	Plating	1	10	100
852836	555980-1	4P4C	Side entry, flangeless w/o panel stops	A	$.66	$.62	$.59
850540	520249-2♠	4P4C	Side entry flangeless w/ panel stops	C	.91	.84	.80
956301	5520425-3 ♻♠	6P4C	Top entry w/o panel stops	D	.86	.77	.70
956176	5520258-3 ♻♠	6P6C	Top entry, flangeless w/ panel stops	B	.53	.49	.47
852561	555163-1♠	6P6C	Low profile right angle w/ panels stops	C	.76	.68	.66
754890	5555163-1 ♻♠	6P6C	Low profile right angle w/ panel stops	D	.95	.82	.78

Keystone-Type RJ45 & RJ11 Jacks

Modular Punchdown Type



212944



213517

- Removable jacks used in wall plates
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D

RJ45 – 8P8C

Part No.	Color	1	10	100
195630	Black ♻	$4.05	$3.44	$2.58
212951	Blue ⊕	3.75	3.55	3.19
212944	White ♻	3.75	3.19	2.39

RJ11 – 6P6C

Part No.	Color	1	10	100
213517	White ♻	$3.75	$3.55	$3.19

RJ45 Plug Color Caps (Boots)

JAMECO EXCLUSIVE



204410

- Round strain relief
- ***Sold in increments of 10***

Part No.	Color	10	100	500	1000
204410	Black ♻	$.14	$.126	$.10	$.075
204362	Blue ♻	.14	.12	.098	.073

Telco Adapters



Fig. 1 Fig. 2 Fig. 3

Part No.	Fig.	Prod. No.	Description	1	10	100
614977	1	45-5110	8C RJ45 to DB9 M	$3.35	$2.45	$2.34
615005	2	45-5113	8C RJ45 to DB9 F	2.45	2.31	1.96
615021	3	45-5123	8C RJ45 to DB25 M	2.95	2.36	1.77

RS-232-to-RJ11/RJ45 Modular Jack Adapters

JAMECO EXCLUSIVE



66181 66237

Change your RS-232 port to an RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
66181	DB9 M to RJ11 (6P6C)	$2.59	$2.35	$2.09
66191	DB9 M to RJ45 (8P8C) ♻	2.89	2.65	2.35
114738	DB9 F to RJ11 (6P4C) ♻	2.35	2.15	1.91
66203	DB9 F to RJ11 (6P6C) ♻	2.79	2.55	2.29
66212	DB9 F to RJ45 (8P8C) ♻	2.99	2.69	2.45
66229	DB25 M to RJ11 (6P6C)	2.95	2.35	1.99
66237	DB25 M to RJ45 (8P8C)	2.99	2.69	2.45
66253	DB25 F to RJ45 (8P8C) ⊕ ✪	2.89	2.59	2.29

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend
New Sale Lower$ QtySave

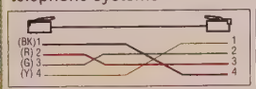
Modular Couplers and Adapters

JAMECO EXCLUSIVE

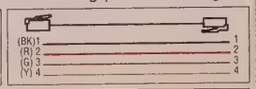

Fig. 1
W: 1.5"
H: 0.9"
D: 0.7"


Fig. 2
W: 1.7"
H: 1.0"
D: 0.9"

Style 1 Reverse wiring for telephone systems



Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	1	10	100
71757	6P6C modular coupler, **Style 1**, RJ11	1	$.95	$.86	$.79
135087	6P6C modular coupler, **Style 2**, RJ11	1	1.09	.93	.70
118501	8P8C modular coupler, **Style 1**, RJ45	1	1.85	1.75	1.55
135079	8P8C modular coupler, **Style 2**, RJ45	1	1.39	1.25	1.15
153023	⊕ 8P8C modular coupler, **Style 2** (for CAT 5) RJ45	2	7.99	7.19	6.49

Modular Jack Boxes

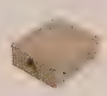

Fig. 1
W: 2.0"
H: 2.2"
D: 0.9"


Fig. 2
W: 1.5"
H: 2.4"
D: 1.1"


Fig. 3
W: 2.4"
H: 2.4"
D: 1.1"

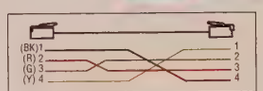
Part No.	Description	Fig.	1	10	100
103464	6P4C adhesive jack RJ11 (beige)	1	$1.39	$1.19	$1.09
71984	6P6C adhesive jack RJ11 (beige)	1	1.39	1.19	.99
71651	8P8C adhesive jack RJ45 (beige)	1	1.95	1.65	1.24
213032	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	2	3.29	2.99	2.69
213049	⊕ 8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	3	4.55	3.87	2.90

Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use



Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing



Part No.	Conn. Style	Type	Length	Pricing 1	10	100
189940	1	RJ11-6P2C	7ft.	$.99	$.85	$.65
196227	1	RJ11-6P4C	7ft.	1.75	1.49	1.29
115554	2	RJ11-6P4C	7ft.	1.75	1.49	1.29
115545	1	RJ11-6P4C	25ft.	2.99	2.72	2.41
201232	2	RJ11-6P4C†	35ft.	2.49	2.25	1.69
115588	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
115677	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

Cable Tie Mounts and Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2
- ***Sold in increments of 10***


182942/171214 71407/71395/71386 — 70595 — 182301/173761 — 173737

Part No.	Cross Ref. No.	Description	10	100	1000
182942	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	$.082	$.078	$.074
171214	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	.156	.113	.11
71407	HC-101 ⊕	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	.185	.165	.134
71395	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	.23	.19	.14
71386	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	.30	.228	.156
70595	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.17	.102	.057
182301	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.17	.15	.14
173761	HC-1 ⊕	Cable tie, saddle type, 0.6"L x 0.4"W	.249	.106	.076
173737	UC1	Cable clamp for 1/4" cable	.15	.097	.068

RIP-TIE EconoCinch/EG CableTies

The loop lock acts like a pulley, giving you leverage to pull the strap as tight as needed. The non-metallic buckle is safe to use around electrical and magnetic equipment. The EconoCinch EG has a solid brass grommet with an ID of 1/4".


Econo Cinch


Econo Cinch EG

- Black • 5 per pack

Part No.	Description	1	10
744691	EconoCinch, 3/4"W x 18"L	$10.69	$10.45
746081	EconoCinch, 3/4"W x 36"L	13.65	13.35
748588	EconoCinch EG, 3/4"W x 7"L	8.69	8.49
749951	EconoCinch EG, 3/4"W x 10"L	9.65	9.45

RIP-TIE Rip-Tie Lite & Wrap Strap



- Patented one end permanently attaches to the cable and the other end has a pull tab
- Durable – made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength
- Reusable and permanent • 10 per pack

Part No.	Description	1	10
700699	1/2"W x 8"L, rainbow	$8.75	$8.55
700701	1/2"W x 8"L, black	8.75	8.55
744624	1/2"W x 10"L, rainbow	12.25	11.99
744632	1/2"W x 10"L, black	12.25	11.99

RIP-TIE Cable Wrap



- Patented – one end permanently attaches to the cable and the other end has a pull tab
- Durable – made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength
- Reusable and permanent • 3 per pack

Part No.	Description	1	10
700681	1"W x 6"L, black	$8.49	$8.29

3M Tape Wire Marker



- For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W

Part No.	Description	1	10
159231	Numerical tape dispenser	$38.19	$36.95

RIP-TIE Gecko Tape



- Low cost
- Non-adhesive, self-gripping tape

Part No.	Description	1	10
744667	1/2"W x 30'L, black	$4.79	$4.69
744675	1/2"W x 75'L, black	11.69	11.45

RIP-TIE Cable Catch



- Easy to install, simply peel-away adhesive cover of the cable catch • 5 per pack
- Anchor cords, cables, & wires neatly along surfaces and out of the way
- Acrylic pressure sensitive adhesive securely attaches to equipment racks, desks, or walls
- Pull of the tab releases bundle for easy rearranging and quick equipment set-ups

Part No.	Description	1	10
744683	1"W x 4"L, black	$15.59	$15.25

Split Loom Cable Wrap

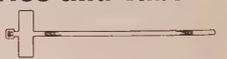
Bundle and protect cables and cords.



- High temperature rating
- 1/2" diameter with slit
- Color: black
- 25' spool

Part No.	Description	1	10
1585531	25' split loom	$9.95	$8.95

Nylon Cable ID Ties and Tabs



- Clear ID tab (0.98" x 0.31")
- ***Sold in increments of 10***

Part No.	Size	10	100	1000
71062	4.0"L x 0.1"W	$.27	$.16	$.127

Cable Tie Tool



- 2.5 - 5mm width (of cable)
- Tension adjustable
- Twist to cut surplus tie end
- Spring return action
- Metal

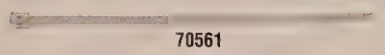
Part No.	Cross Ref. No.	1	5	10
182298	0302TG-7	$19.15	$17.99	$16.86

Open an account with us to consolidate your monthly billing and save time. 1-800-831-4242

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Nylon Cable Ties

Standard

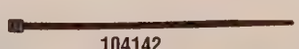

70561

- Cable ties made from UL approved Nylon 6.6
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182677:white)
- ***Sold in increments of 100***

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70561	18 ♻	3.1 x 0.10	$.025	$.015
126544	18 ♻	4.0 x 0.10	.025	.017
182677	18 ♻*	4.75 x 0.13	.03	.025
182651	18 ♻	5.5 x 0.13	.096	.091
139150	18 ⊕	8.0 x 0.10	.068	.046
182669	18 ♻	8.0 x 0.13	.075	.05
182685	18 ♻	8.0 x 0.18	.036	.033
70907	40 ♻	5.8 x 0.10	.035	.026
190756	40	10.0 x 0.14	.127	.088
190772	40	11.0 x 0.19	.127	.088
190764	40 ⊕	13.0 x 0.14	.115	.083

* White

Weather Resistant


104142

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- ***Sold in increments of 100***

UV Resistant

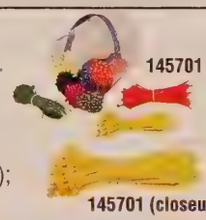
Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125	18 ⊕	3.0 x 0.90	$.05	$.037
104142	18 ♻	4.0 x 0.10	.044	.029
104134	40 ♻	5.8 x 0.10	.058	.038
190782	40 ♻	8.0 x 0.13	.108	.083
190800	40 ♻	10.0 x 0.14	.115	.093
190802	40 ♻	13.0 x 0.14	.188	.179

Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701:
1000 pcs. (4"L); 10 colors

150412:
500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors


145701

145701 (closeup)

Part No.	Wt. (lbs.)	1	10	50
145701	0.7 ⊕	$9.99	$8.99	$7.40
150412	1.7	16.99	15.99	14.99

New Lower Prices = Orange
Exceptional Quantity Discounts = Green

Polyolefin Heat Shrink Tubing

FIT221/FIT221B Series



Insulation from environment and resistance from water fungus and UV light. Use for general purpose insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: $10^{14}\Omega$-cm

Black (6 inch pieces)

Part No.	Product No.	Min./Max. ID (ins.)	Bags of	1	5
419400	FIT221B-1/16 ♻	.063/.031	36	$13.45	$12.62
419549	FIT221B-3/4 ♻	.750/.375	12	13.39	12.59
419565	FIT221B-1 ♻	1.00/.500	8	12.95	12.15

Black (4 foot pieces)

Part No.	Product No.	Min./Max. ID (ins.)	1	5	25
419101	FIT221B-3/64 ♻	.046/.023	$.67	$.60	$.57
419127	FIT221B-1/16 ♻	.063/.031	.96	.91	.74
419143	FIT221B-3/32 ♻	.093/.046	.72	.64	.61
419160	FIT221B-1/8 ♻	.125/.062	.77	.73	.72
419186	FIT221B-3/16 ♻	.187/.093	.95	.84	.83
419207	FIT221B-1/4 ♻	.250/.125	1.79	1.66	1.36
419223	FIT221B-3/8 ♻	.375/.187	1.31	1.17	1.11
419240	FIT221B-1/2 ♻	.500/.250	1.48	1.32	1.26

Clear (4 foot pieces)

Part No.	Product No.		1	5	25
419215	FIT221-1/4 ♻	.250/.125	$1.75	$1.56	$1.37

Heat Gun/Stripper

Dual-Setting



- Use with heat shrink material
- Dual heat setting: 600°F/1100°F
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed

Part No.	Dimensions	1	10	25
76865	9.3"L x 7.0"W ⊕	$39.95	$35.95	$31.95

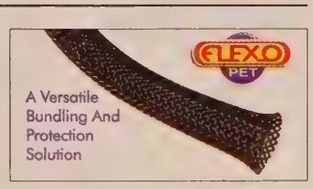
TECHFLEX® FLEXO® Clean-Cut Braided Sleeve



- Dense braid structure provides fuller coverage
- Fray resistant when cut with scissors • Color: black
- Cut and abrasion resistant • UV resistant • Length: 25 feet
- Maintains properties across wide temperature range

Part No.	Product No.	Min/Max Flex (ins.)	Inside Dia.(ins.)	Outside Dia.(ins.)	1	10
162157	CCP0.25BK25 ♻	5/32 – 7/16	0.250	0.440	$15.99	$14.99
162165	CCP0.50BK25 ♻	1/4 – 3/4	0.500	0.750	17.99	16.99

TECHFLEX® FLEXO® PET Braided Sleeve



- Braided from 10 mil polyethylene terepthalate monofilament yarns
- UL recognized component • Conforms to FMVSS 302 • Color: black
- High tensile strength • Cut and abrasion resistant • UV resistant
- Maintains properties across wide temperature range • Length: 25 feet

Part No.	Product No.	Min/Max Flex (ins.)	Inside Dia.(ins.)	Outside Dia.(ins.)	1	10
695383	PTN0.50BK25 ♻	1/4 – 3/4	0.500	0.550	$11.85	$10.59

Heat Shrink Tubing



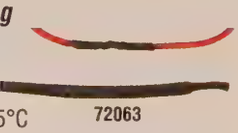
- 2:1 uniform shrink ratio
- Color: black

Polyolefin Tubing

- Shrink temp: 90°C
- ***Only sold in 10' & 100' lengths***

Part No.	Dia. Before (mm)	Length (ft.)	1	25
644834	0.12" (3)	10	$1.65	$1.56
644851	0.12" (3)	100	10.59	10.10
644869	0.16" (4)	10	1.75	1.65
644877	0.16" (4)	100	18.39	17.49
644906	0.20" (5)	10	1.55	1.47
644914	0.20" (5)	100	17.99	17.10
644931	0.24" (6)	10	1.69	1.64
644949	0.24" (6)	100	16.49	15.67
644957	0.31" (8)	10	2.29	2.17
644965	0.31" (8)	100	26.95	23.95
644973	0.43" (11)	10	3.35	3.23
644981	0.43" (11)	100	29.99	22.49
644990	0.59" (15)	10	3.69	3.49
645001	0.59" (15)	100	35.99	34.19

Polyolefin Flexible Tubing


72063

- Dielectric strength: 1300V
- Flame retardant
- Shrink temp.: 90°C
- Temp. range: -45°C to +125°C

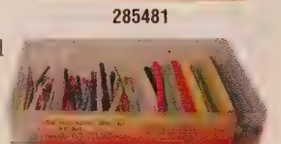
* **Precut 39" length (1 meter)**

Part No.	Dia. Before (mm)	1*	10*	100*
71327	.059" (1.5) ⊕	$.78	$.57	$.52
71871	.079" (2.0) ♻	.55	.47	.353
71280	.098" (2.5) ⊕	.79	.68	.51
72063	.197" (5.0) ⊕	1.07	.92	.69

3M Heat Shrink Tubing Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation.


285481


645976

285481:
Black 102 pieces

- Assorted pre-shrink sizes: 3/16" (30 pcs.); 1/4" (28 pcs.); 3/8" (20 pcs.); 1/2" (14 pcs.); 3/4" (6 pcs.); 1" (4 pcs.) • Pre-cut to 6" lengths

645976: Assorted colors 133 pieces

- 7 colors: black, red, white, yellow, blue, green and clear
- Assorted pre-shrink sizes: 3/32" (35 pcs.); 1/8" (28 pcs.); 3/16" (21 pcs.); 1/4" (21 pcs.); 3/8" (14 pcs.); 1/2" (14 pcs.) • Pre-cut to 6" lengths

1578461: Heat shrink tubing refill pack

- Color: black • Length: 4 ft.
- Inner diameter: 0.125"

Part No.	Description	1	5	10
285481	Black 102-pc. kit	$59.75	$56.79	$53.95
645976	Colors 133-pc. kit ♻	60.49	57.07	54.21

Part No.	Product No.	1	10	100
1578461	FP301-1/8-4FT-BK♠	$1.12	$.86	$.73

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Audio/Video, 3.5mm, RCA Cables and Adapters

Color Code Legend: New Sale Lower$ QtySave

Additional Audio & Video Products are available online at www.Jameco.com/Cable

Audio/Video Cables and Adapters



JAMECO EXCLUSIVE

Quantity Save

RCA Cables

Part No.	Description	1	10	25
228443	3' stereo RCA (2) male to (2) male plugs, gold plated	$1.75	$1.64	$1.52
183312	4' RCA male to male plug (black) ≵	1.19	1.05	.93
206973	4' RCA male to male plug (yellow) ⊕ ✪	.99	.89	.79
106375	6' RCA male to male plug ≵	2.19	1.69	1.26
228419	6' mono RCA male plug to female jack	1.99	1.74	1.50
228486	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451	6' RCA stereo (2) male to (2) male plugs, gold plated	2.15	2.03	1.91
228401	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
228427	10' RCA female jack to male plug	2.39	2.03	1.52
29349	10' RCA male to male plug (yellow) ≵	2.05	1.89	1.65
228460	12' RCA stereo (2) male to (2) male plugs, gold plated	2.49	2.27	2.10
225980	12' RCA (3) male to (3) male plugs, gold plated	4.95	4.27	3.17
225998	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79	5.09
228435	25' mono RCA male to male plug, nickel plated	2.59	2.51	2.39
228478	25' RCA stereo (2) male to (2) male plugs, gold plated	2.89	2.75	2.63

Great Prices on Special Buys*

1810161	3' RCA (3) male (3) male plugs, gold plated	$2.95	$2.75	$2.49
1810152	6' RCA (3) male (3) male plugs, nickel plated	3.49	3.25	2.75

*Manufacturer may vary ✪ Blue Part No. = Limited Quantity Available

Video/Audio Patch Cables

Part No.	Description	1	10	25
228574	25' stereo video patch cable, gold plated	$6.99	$6.29	$5.65
228582	50' stereo video patch cable, gold plated	14.35	12.94	11.62

3.5mm Audio Patch Cables

Part No.	Description	1	10	25
319206	27" 3.5mm mono male to male plug	$1.43	$1.23	$1.16
228494	6' 3.5mm stereo male to male plug (black)	1.45	1.26	1.05
228515	6' 3.5mm stereo male plug to female jack	1.95	1.79	1.69
228507	12' 3.5mm stereo male to male plug (black)	1.69	1.49	1.29
228523	12' 3.5mm stereo male plug to female jack	2.09	1.88	1.70

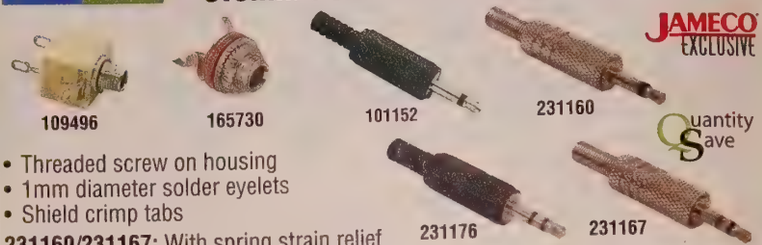
Component Video and Audio Cables



- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality

Part No.	Description	1	2	5
228620	6' component video RGB cable	$9.99	$8.99	$7.96
229403	6' component video RGB and stereo audio cable	14.95	13.46	12.11

3.5mm Female Jacks and Male Plugs



JAMECO EXCLUSIVE

Quantity Save

- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231160/231167: With spring strain relief

Part No.	Cross Ref. No.	Description	1	10	100
109496	PJ035PM ≵	Mono F jack, 3.5mm hole size	$.53	$.472	$.425
165730	PJ0354 ≵	Mono F jack, 3.5mm hole size	.79	.67	.56
101152	PJ1035 ≵	Mono male plug, plastic	.58	.45	.36
231160	PJ1035 ≵	Mono male plug, plastic	1.49	1.43	1.31
231176	AP-340 ≵	Stereo male plug, plastic	.66	.516	.432
231167	AP-343 ⊕	Stereo male plug, metal	1.75	1.36	1.02

S-VHS Cables and Adapters

JAMECO EXCLUSIVE

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.



- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, & DVD players

Part No.	Description	1	10	25
228591	6' S-VHS video cable, gold plated	$2.15	$1.95	$1.79
228611	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391	S-video male plug to RCA video female jack	5.39	4.85	4.39

BNC To RCA Cable

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.



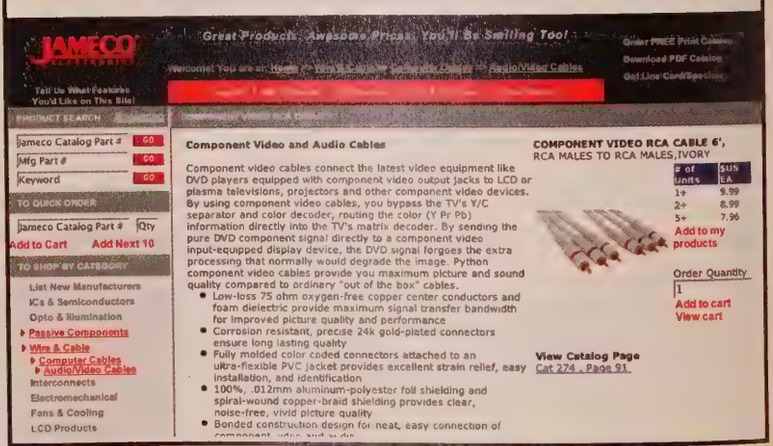
Quantity Save

Part No.	Description	1	10	50
683059	RG-59 BNC to RCA cable	$4.55	$3.88	$2.91

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≵ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Audio/Video Adapters are available online at www.Jameco.com/Interconnect

RCA Metal Plugs


229876

- High-quality metal housing RCA plugs

Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Product No.	Description	1	10	25	100
229876	JR0101BLK	Black stripes ⊕	$2.29	$2.03	$1.86	$1.67
229868	JR0101R	Red stripes ⊕	2.29	2.03	1.86	1.67

RCA Plastic Plugs

Quantity Save


229930

- High-quality plastic RCA plugs

Plastic screw-on cover w/ integral cable protection

Part No.	Product No.	Description	1	10	25	100
229921	JR1625BLK	Black (5 pk)	$1.15	$1.04	$.83	$.62
229930	JR1625R	Red (5 pk)	1.15	1.04	.83	.62

RCA Jacks

Quantity Save

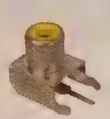

Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5

- Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions (WxDxH)	1	10	100
220581	1	PCB mount, white ⊕	.44" x .56" x .48"	$.53	$.34	$.32
220556	1	PCB mount, red ⊕	.44" x .56" x .48"	.59	.52	.39
112476	1	PCB mount, red	.44" x .58" x .48"	.50	.44	.33
169502	2	PCB mount, black	.40" x .85" x .50"	.47	.40	.30
1537150	3	PCB mount, red/white	1.1" x .40" x .51"	.69	.63	.49
159485	4	Panel mount, black	.84"W x .38"H	.69	.60	.46
172340	4	Panel mount, red	.84"W x .38"H	.59	.468	.372
319249	5	Panel mnt., 1x4 grid, red/blk ⊕	2.9" x .48" x .98"	1.43	1.19	1.13

KEYSTONE RCA/Phono Jacks

- Snap-fit mount


1581513


1581564

Part No.	Product No.	Color	1	5	100
1581513	577	Vertical, red	$.74	$.71	$.69
1581564	901	90°, black	1.13	1.11	1.08

Audio Adapters and Cables


228283 228267 139038 228371 228355 228380 228398

RCA Audio Adapters

Part No.	Prod. No.	Description	1	10	25
228283	251-120	RCA **F** jack to mono 1/4" **M** plug	$.99	$.89	$.69
228267	251-116	RCA **F** to **F** jack coupler, gold plated	.95	.79	.55

RCA Y-Cables

139038	AC-27-5FT	5' Y-cable 1/8" stereo **M** plug to (2) RCA **M** plugs	$2.25	$1.99	$1.79
682793	WCA2274G	6' Y-cable 1/8" stereo **M** plug to (2) RCA mono **M** plugs	2.29	2.09	1.89
228371	255-025	6" Y-cable (2) RCA **M** plugs to RCA **F** jack	1.11	.99	.90
228355	255-010	6" Y-cable RCA **M** plug to (2) RCA **F** jacks	2.09	1.78	1.34
228380	255-038	6" Y-cable (2) RCA **F** jacks to 3.5mm stereo plug	1.95	1.76	1.59

3.5mm Y-Cables

228398	255-042	6" Y-cable (2) 3.5mm stereo **F** jacks to 3.5mm stereo **M** plugs	$1.95	$1.65	$1.35
228380	255-038	6" Y-cable (2) RCA **F** jacks to 3.5mm stereo **M** plug	1.95	1.76	1.59

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at **www.Jameco.com**

Connector Index

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.084" Pin and Socket	95 +WEB
.093" Power	95 +WEB
.100" AMPLATCH	103 +WEB
.100" Headers	96,98,101-102,104 +WEB
.100" IDC (MTA)	98 +WEB
.100" KK Series	97 +WEB
.100" Receptacles	101,103 +WEB
.100" AMPLATCH	103 +WEB
.100" Shorting Blocks	96 +WEB
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Wire	103-104,114 +WEB
XLR	89-90 +WEB
ZIF	94 +WEB

Microphone (XLR) Connectors

JAMECO ValuePro

JAMECO EXCLUSIVE

LOWER PRICES Quantity Save


319011


319003


319038

Part No.	Cross Ref. No.	Description	1	10	100
319011	250-710 ⊕	3-pin male, metal	$2.59	$2.20	$1.65
319003	250-720 ⊕	3-pin female, metal	2.59	2.20	1.65
319038	250-705 ⊕	3-pin female, metal, panel mount	4.15	3.39	2.29

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

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Additional Audio Connectors are available online at www.Jameco.com/Interconnect

Switchcraft® Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

Audio Plugs and Jacks

Switchcraft – For Highest Quality Connectors

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
281869	750	1	3.5mm mono audio plug, plastic	14.0 x 41.5 x 5.7 ID	$3.09	$2.73	$2.50
281834	41	2	3.5mm audio jack	7.8 x 5.9	1.55	1.47	1.42
297297	850	3	2.5mm mono phone audio plug, plastic	25.8 x 6.35 Dia.	2.89	2.83	2.60
281789	297	4	1/4" stereo phone audio plug, metal	73.7 x 7.6 ID	5.29	4.75	4.36
281771	280	5	1/4" mono phone audio plug, metal	73.7 x 7.6 ID	4.35	3.43	3.40
281762	267	6	1/4" stereo phone audio plug, plastic	73.7 x 7.6 ID	4.89	4.00	3.92
281754	250	7	1/4" mono phone audio plug, plastic	73.7 x 7.6 ID	3.25	2.81	2.57
281746	12B	8	1/4" stereo phone audio jack	14.7 x 9.1 Dia.	1.79	1.48	1.39
281738	11	9	1/4" mono phone audio jack	12.8 x 9.1 Dia.	1.69	1.55	1.43
296892	12A	8	1/4" mono phone audio jack, metal	31.7 x 9.4 Dia.	1.75	1.61	1.59
1766121	35RAPC2AV ♠	10	3.5mm mono jack, RA vert., plastic	11.0H x 7.5W x 14D	.94	.81	.76
1766155	35RAPC2BV4 ♠	10	3.5mm mono jack, RA vert., plastic	12.3H x 8.1W x 14D	1.99	1.73	1.64
568392	35RAPC4BH3 ♠	11	3.5mm stereo jack, RA hor., plastic	6.0H x 11.0W x 8.0D	1.19	1.09	1.05
1766180	35RAPC4BHN2	11	3.5mm stereo jack, RV hor., plastic	5.0H x 12.0W x 15.0D	1.31	.94	.85
1766198	35RAPC4BV4	12	3.5mm stereo jack RA vert., plastic	12.3H x 8.1W x 14.0D	1.35	1.17	1.12
1766219	35RAPC7JS ♠	13	3.5mm dual stereo jack, vertical	26.7H x 15.0W x 13.7D	5.65	5.43	5.14
1773996	MDPC2ARA	14	2.5mm mono phone audio jack, RA submini	7.8W x 8.7Wx 12.8D	2.69	2.06	1.89
1774913	RN111PC ♠	15	1/4" mono phone audio jack, RA PCB	17.17H x 15.8W x 32.5D	2.15	1.62	1.48
1774930	RN112BPC ♠	16	1/4" stereo phone audio jack, RA PCB	17.17H x 15.8W x 32.5D	2.19	2.02	1.92


Fig. 1

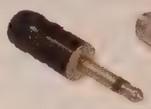
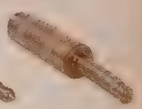
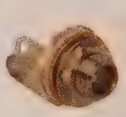
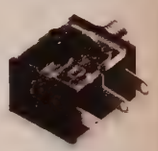
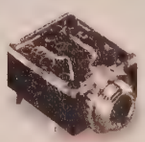
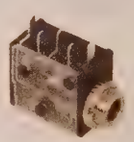
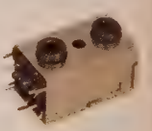
Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Power Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
281842	712A	17	2.5mm DC power jack, panel mount	15.8 x 7.5 Dia.	$2.39	$1.79	$1.67
1768329	712RA ♠	18	2.5mm DC power jack, PCB locking	19.6 x 10.9 Dia	3.55	2.80	2.54
281851	722A	17	2.1mm DC power jack, panel mount	15.1 x 7.5 Dia.	2.15	2.00	1.93
297553	PC712A	19	2.5mm x 5.5mm DC power jack, metal	23.3 x 11.0 Dia.	3.09	2.35	2.10
297529	L712A	20	2.5mm x 5.5mm DC power jack, metal	23.3 x 11.0 Dia.	3.75	3.17	3.01
281877	760	21	2.5mm x 5.5mm DC power plug, plastic	9.6 x 36.3 x 5.7 Dia.	2.49	2.28	2.17
1768492	760K ♠	22	2.5mm DC power plug, plastic locking	43.2 x 5.5 Dia.	4.75	3.95	3.16
297617	S760	23	2.1mm x 5.5mm DC power plug, plastic	25.4 x 9.5 Dia.	2.49	2.28	2.17
297289	761K	22	2.5mm DC power plug, plastic locking	45.7 x 5.5 Dia.	4.39	3.54	3.24


Fig. 14

Fig. 15

Fig. 16

Fig. 17

Fig. 18

Fig. 19

Microphone (XLR) Connectors

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
277026	A3F	23	3-pin female, metal	82.5 x 5.3 Dia.	$4.75	$3.86	$3.65
281560	A3M	24	3-pin male, metal	70.3 x 5.3 Dia.	4.09	3.74	3.55
281640	D3F	25	3-pin female, metal, panel mount	27.0W x 36.3H x 30.6D	5.69	4.72	4.15
281586	A4F	23	4-pin female, metal	82.0 x 5.5 Dia.	8.19	6.19	5.68
281594	A4M	24	4-pin male, metal	71.2 x 4.8 Dia.	5.19	4.58	4.21
281607	A5F	23	5-pin female, metal	82.0 x 4.7 Dia.	13.39	10.03	9.20
281615	A5M	24	5-pin male, metal	70.2 x 5.3 Dia.	10.59	7.98	7.32
281623	A6F	23	6-pin female, metal	80.2 x 4.6 Dia.	16.69	12.56	11.51
281711	D6M	26	6-pin male, metal, panel mount	27.0W x 36.3H x 30.6D	13.99	12.99	12.39
1774702	PQG3FRA112 ♠	27	3-pin female RA PCB w/ lock, plastic	30.0H x 27.0W x 27.1D	7.45	7.11	6.75
1774711	PQG3MRA112 ♠	28	3-pin Male RA PCB w/ lock, plastic	30.0H x 27.0W x 27.1D	7.49	5.62	4.50


Fig. 20

Fig. 21

Fig. 22

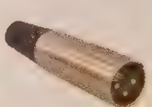
Fig. 23

Fig. 24

Fig. 25

Tini Q-G® Miniature Connectors

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
1775422	TB3M ♠	29	3-pin male receptacle, panel mount	13.7 x 11.9 Dia.	$6.99	$6.27	$5.54
1775431	TB5M ♠	29	5-pin male receptacle, panel mount	13.7 x 11.9 Dia.	9.89	8.99	8.54
1775617	TRA3M ♠	30	3-pin receptacle, PCB Mount	15.1H x 15.4W x 27.0D	9.29	7.77	7.13

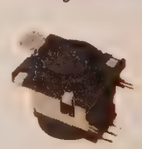

Fig. 26

Fig. 27

Fig. 28

EN3™ Mini Weather-Tight Connectors

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
1772045	EN3P3M ♠	31	3-pin male, panel mount	21.0 x 20.6 Dia.	$3.55	$3.20	$3.16
568499	EN3CAP ♠	32	Endcap	—	1.05	.88	.85

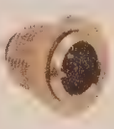
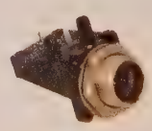
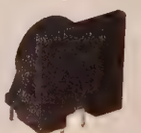
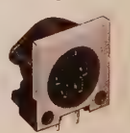

Fig. 29

Fig. 30

Fig. 31

DIN Connectors, Right Angle

LOWER PRICES

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	100
672608	57PC5F ♠	33	5-pin DIN receptacle,180; plastic	18.0H x 20.0W x 15.5D	$2.85	$2.53	$2.32
1767879	57PC5FS ♠	34	5-pin DIN receptacle 180; shielded	18.0H x 20.4W x 15.0D	3.05	2.41	2.28


Fig. 32

Fig. 33

Fig. 34

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

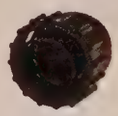
RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

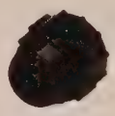
AMP CPC Circular Plastic Connectors

Series 1 — Standard density, signal & low-current applications

- Accepts type III+; high-current type II & subminiature coax contacts
- Voltage rating: 600V (UL)


495146


495031


495103

Square Flange Receptacles with Mounting Holes

Part No.	Product No.	AWG	Finish	Type	1	10
495146	206043-1♻	17-14		Reverse	$2.39	$2.15

Plugs

495031	206044-1♻	17-14		Reverse	$2.89	$2.61
495103	206708-1♻	13-9		Standard	3.25	2.94
495082	206060-1♻	11-4		Standard	2.45	2.33

Series 2 — High density applications

- Voltage rating: 250V (UL)
- Current: 7.5A max.
- Housing: thermoplastic black, UL94V-0 rated
- Feed thru contact: copper alloy, plated gold over nickel
- 0.40" (1.02mm) pin diameter
- Max. wire insulation diameter: 0.068"
- Accepts size 20DF or 20DM crimp snap-in contacts

Plug

Part No.	Product No.	AWG	Finish	Type	10	100
495390	206485-1♻	11-9		Standard	$4.75	$4.09

Contacts

- Finish:
  A: 30µ" gold over nickel **B:** Tin-lead
  C: 15µ" gold over nickel **D:** gold flash over nickel

Type III+ Snap-In Crimp Pins w/ Retention Spring

- Crimp type except *P/N 526424 (solder type)
- Contact body – brass or phosphor bronze


Pin Socket

Part No.	Product No.	AWG	Finish	Type	1	10
859835	66361-3♻♠	18-14	C	Pin	★	Call
526424	66180-1♻	18-16	A	Pin*	.90	.70
526432	66181-1	18-16	A	Socket	1.00	.81
526459	66103-3♻	24-20	C	Pin	.39	.376
526563	1-66103-5	24-20	B	Pin	.34	.303
526379	66105-3♻	24-20	C	Socket	.52	.485
526504	1-66105-6	24-20	B	Socket	.40	.304

Reel Contact

968071	66102-9♻♠	24-20	A	Pin	★	Call

★ Please call or visit our website for minimum order quantity and pricing

Size 20DF Contacts

- Contact body: brass


Pin Socket — With Insulation Support

Pin Socket — Without Insulation Support

Minimum order 10 pieces

Part No.	Product No.	AWG	Finish	Type	10	100
527531	66505-9♻	28-24	A	Socket†	$.22	$.165
223221	1-66505-0♻	28-24	D	Socket†	.188	.158
223247	745253-6♻	26-22	A	Socket†	.186	.168
223298	66504-9♻	24-20	A	Socket	.139	.129
223255	1-66504-0♻	24-20	D	Socket	.17	.15

† With insulation support

AMP CPC Accessories

Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated


494063

Part No.	Product No.	Shell Size	Cable O.D. (max.)	1	10
494047	206062-3	28	.329"	$3.39	$2.55
494039	206062-1	28	.329"	3.15	2.37
494063	206070-1	17	.453"	3.45	2.95
749919	206966-7♻♠	13	.453"	3.75	3.29
749839	206138-8♻	23	.703"	3.29	2.91

Cable Entry Seals

Heat Shrinkable Sealing Boots

Cable entry seals are used w/ jacketed cables to provide an environmentally sealed wire-to-wire connector system. Can be used w/ either plugs or receptacles.



- Internal sleeve: nylon
- Outer tubing: polyolefin

NEW

Part No.	Product No.	Shell Size	Sealing Range (Dia.)	1	10
852043	54010-1♻♠	11	.26" - .60"	$7.99	$7.18
852060	54011-1♻♠	17	.40" - .875"	8.55	7.78

4-40 Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws and Standoffs



108987



102795

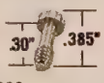

125015

✳ Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
196293	.252"L jack screw⊕	$.32	$.21	$.12	$.088
169931	.275"L jack screw⊕	.21	.144	.115	.086
172603	.315"L jack screw	✳	.121	.101	.076
102816	.435"L jack screw⊕	.69	.65	.59	.53
108987	.515"L jack screw♻	1.05	.95	.76	.57
125015	4-40 x 1.65"L plastic beige thumbscrew♻	.20	.134	.105	.099
175636	.187"L standoff⊕	.25	.21	.15	.10
102795	.236"L (6mm) stdf ⊕	.27	.25	.188	.125

4-40 Screw Sets





102808



16548

102808: 4-40 screw (.385"L) and retainer set
16548: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

- **Prepackaged: please order in increments of 10**

Part No.	Description	10	100	1000
102808	Screw/retainer set⊕	$.429	$.385	$.33
16548	Screw/nut set♻	.74	.60	.402

Lowest Price Guarantee

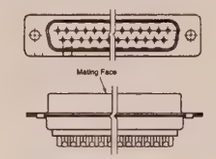
Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

AMP D-Sub Connectors

- Dielectric withstanding voltage: 1000VAC (one min.)
- Low-cost, high-performance, precision formed crimp contacts
- Insulation resistance: 5000MΩ
- Nylon, flame retardant, 94V-0 rated, glass filled
- UL/CSA recognized and certified
- Standard mounting method with 0.120" diameter mounting holes

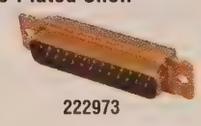
Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solder wicking contact design



Plug Receptacle

Zinc-Plated Shell

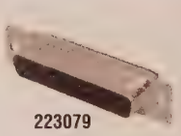

222973


223036

Part No.	Product No.	Cont.	Description	1	10	100
222957	747904-4	9	Plug	$2.19	$1.83	$1.46
222973	747912-4	25	Plug	4.39	3.72	2.99
223036	747905-4	9	Receptacle	3.05	2.57	2.02

Tin-Plated Shell


223010


223079

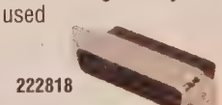
Part No.	Product No.	Cont.	Description	1	10	100
222990	747904-2⊕	9	Plug	$1.79	$1.73	$1.64
223001	747908-2⊕	15	Plug	2.89	2.69	2.44
223010	747912-2⊕	25	Plug	3.89	3.27	2.61
223028	747916-2⊕	37	Plug	4.29	3.99	3.70
223052	747905-2⊕	9	Receptacle	2.35	2.09	1.60
223061	747909-2	15	Receptacle	4.15	3.59	3.06
223079	747913-2	25	Receptacle	4.09	3.69	2.72
223087	747917-2	37	Receptacle	7.79	6.50	5.21

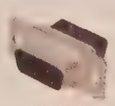
Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



Receptacle


222818


222842


222922

Tin-Plated Shell

Part No.	Product No.	Cont.	Description	1	10	100
222754	205204-3	9	Plug	$1.49	$1.19	$1.07
222818	207464-2♻	25	Plug*	.76	.68	.62
222842	205203-3♻	9	Recept.	.68	.56	.51
222922	207463-1♻	25	Recept.	.74	.67	.63

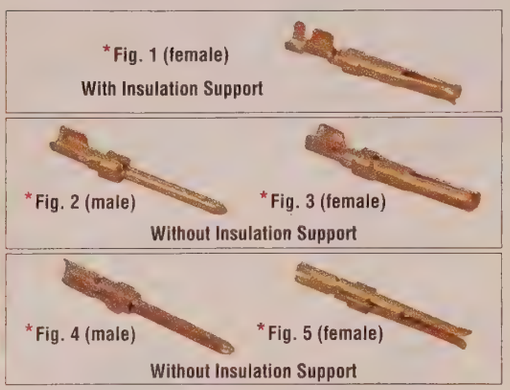
* With grounding indents

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP D-Sub Contacts

- Material: pin: brass; socket: phosphor bronze
- Contact plating
- *A: Select – gold flash over nickel on entire contact, with additional gold (0.000030") on mating end; *B: Gold flash over nickel on entire contact; *C: Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated *D: Duplex plated 30µ" gold on mating end, fin/lead on crimp barrel
- For use with AMP D-sub connectors (see pg 91)



Minimum order 10 pieces

Size 20DF — Male Crimp Contact (Bulk)

Part No.	Product No.	Desc.*	AWG	10	100	1000
838399	2-66506-4♻	2B	24-20	$.092	$.072	$.049

Size 20DF — Tape and Reel

Part No.	Product No.	Desc.*	AWG	Price
860035	66506-4♻♠	2B	24-20 ..... ★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

Size 20DF — Female Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221	1-66505-0♻	1B	28-24	$.188	$.158	$.109
223247	745253-6♻	1A	26-22	.186	.168	.126
223255	1-66504-0♻	1B	24-20	.17	.15	.11
860001	66504-4♻	1B	24-20	.128	.085	.055
223271	5-66504-7	1C	24-20	.154	.149	.112
223298	66504-9♻	1A	24-20	.139	.129	.097

Size 20DF — Male Solder Contact

Part No.	Produc t No.	Desc.*	AWG	10	100	1000
234982	66570-3♻	4A	28-24	$.187	$.148	$.121

Size 20DF — Female Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319	66569-3♻	5A	18 (max.)	$.231	$.222	$.218

Size 22DF — Female Crimp Contact

Part No.	Product No.	Desc.*	AWG	Price
974366	748610-2♻♠	3D	28-22 ..... ★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

AMP AMPLIMITE™ Shield Enclosure Kit NEW



- 25 position receptacle enclosure
- Expanding neck accommodates cable from 0.217" to 0.435" dia.
- Includes housing, 25-position HDP-20 receptacle and jackscrew
- Receptacle accepts 20DF type female contacts
- Enclosure: flame retardant rated UL94V-0, styrene polyolefin, black • Zinc alloy jack scews

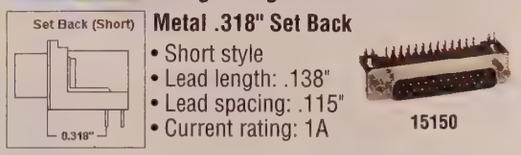
Part No.	Product No.	1	10
837783	1658658-1♻♠	$9.29	$8.12

JAMECO ValuePro D-Subminiature Connectors

JAMECO EXCLUSIVE

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)
- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

Right Angle PC Mount



Metal .318" Set Back

- Short style
- Lead length: .138"
- Lead spacing: .115"
- Current rating: 1A

15150

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100	500
104943	DB9P318♻	9	M	$.61	$.56	$.50	$.422
104952	DB9S318♻	9	F	.66	.61	.54	.495
71124	DA15P318⊕✪	15	M	.69	.59	.55	.49
77956	DA15S318⊕	15	F	.79	.69	.66	.495
71466	HDDB15S318⊕	15*	F	.59	.53	.48	.39
15150	DB25P318♻	25	M	.84	.67	.62	.57
15182	DB25S318♻	25	F	1.05	.94	.85	.78
265439	DSUB-25F	25	F	.94	.84	.79	.73
71707	DC37P318♻	37	M	1.15	1.05	.95	.78
78183	DC37S318♻	37	F	1.99	1.65	1.49	1.35

*High Density ✪ Blue Part No. = Limited Quantity Available



Metal .590" Set Back

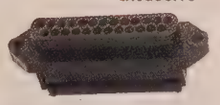
- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Long style

104978

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
104970	DB9P590♻	9	M	$1.19	$.99	$.86
104978	DB9S590♻	9	F	.96	.82	.61
104994	DA15S590♻	15	F	1.19	1.03	.71
105006	DB25P590♻	25	M	1.01	.91	.81
105014	DB25S590♻	25	F	1.29	1.10	.83

IDC Ribbon Cable

JAMECO EXCLUSIVE



12432

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temperature range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: metal; CD: plastic (see cross ref. no.)

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
109226	MDB9P♻†	9	M	$1.49	$1.38	$1.04
12504	CDB9P♻	9	M	2.49	1.79	1.59
109218	MDB9S♻†	9	F	1.69	1.34	1.17
12521	CDB9S♻	9	F	2.79	2.51	2.24
117381	MDA15P⊕✪	15	M	1.99	1.59	.88
12299	CDA15P♻	15	M	1.85	1.57	1.18
116011	MDA15S⊕✪	15	F	1.55	1.32	.99
12319	CDA15S⊕	15	F	1.79	1.50	.73
115983	MDB25P⊕	25	M	2.65	2.38	1.99
12335	CDB25P⊕	25	M	1.99	1.79	1.49
115976	MDB25S♻	25	F	2.39	2.14	1.80
12432	CDB25S♻	25	F	2.29	2.11	1.64
115991	MDC37P⊕✪	37	M	2.49	2.23	1.61
12466	CDC37P⊕	37	M	3.69	3.52	3.29
116004	MDC37S♻	37	F	3.59	3.26	2.94
12483	CDC37S♻	37	F	3.89	3.32	2.50

† Requires flat cable w/ .0625" centers ✪ Blue Part No. = Limited Qty

For Flat Ribbon Cable, see page 81

Crimp-Type Connectors & Pins



- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use P/N 99443, pg 96, to crimp 43377, 43369

✳ Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
73189	DB9 M housing	$.49	$.39	$.31	$.19
73197	DB9 F housing	.49	.39	.31	.19
73200	DA15 M housing⊕✪	.85	.74	.67	.60
73219	DA15 F housing♻	.75	.68	.60	.45
180882	HDDB15 M housing♻* ...	.87	.79	.64	.48
180890	HDDB15 F housing⊕*	1.01	.91	.73	.55
38789	DB25 M housing	.68	.528	.432	.252
38771	DB25 F housing	.55	.44	.31	.21
43377	M crimp pin	✳	.105	.095	.085
43369	F crimp pin	✳	.08	.07	.06
185421	M crimp pin (180882)⊕	✳	.055	.045	.04
185412	F crimp pin (180890)⊕	✳	.055	.05	.04
19094	Insert./extract. tool for above pins (HT101)	3.65	3.21	2.99	2.49

* High Density ✪ Blue Part No. = Limited Quantity Available

Metal Solder-Cup



- Compatible with 24 AWG communications pg 82, and 22 AWG solid cable, pg 81

Part No.	Contacts	Gender	1	10	100	1000
15748	9♻	M	$.61	$.47	$.38	$.25
15771	9	F	.66	.55	.49	.35
15078	15HD♻*	M	.81	.70	.58	.37
164823	15HD♻*	F	.80	.70	.60	.39
15035	15♻	M	.59	.532	.456	.315
15052	15♻	F	.65	.535	.426	.262
15115	25♻	M	1.08	.97	.86	.77
15157	25	F	.99	.85	.75	.66
203799	26HD⊕*	M	.65	.58	.52	.49
203782	26HD♻*	F	.75	.68	.54	.405
15472	37⊕✪	M	.99	.85	.79	.49
15499	37⊕✪	F	1.39	1.21	.98	.57
15676	50♻	M	1.99	1.79	1.43	1.07
15691	50⊕	F	1.89	1.48	1.41	1.05

Great Prices on Special Buys✳

482687	25	M	$.80	$.75	$.57	$.43
482708	25	F	.80	.72	.62	.45
482724	37	F	.89	.80	.64	.48

*High Density ✳Manufacturer may vary ✪ Blue P/N = Limited Qty

Metal Straight PC Mount

- Non-removable contacts • Current rating: 5A
- Operating temperature: -65° to +250°F • 125 V_{RMS}

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
111692	DB9PPCB♻	9	M	$.65	$.502	$.357
15781	DB9SPCB♻	9	F	.68	.56	.39
176760	DA15PPCB⊕	15	M	.39	.332	.249
176752	DA15SPCB♻	15	F	.75	.65	.473
15123	DB25PPCB♻	25	M	.75	.65	.57
15166	DB25SPCB♻	25	F	.89	.81	.47
180021	DC37SPCB⊕	37	F	1.09	.95	.71

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other product on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional D-Sub Connectors are available online at www.Jameco.com/Interconnect

3M D-Sub Plugs & Sockets 8200 & 8300 Series

- Improved metal strain relief hooks directly to metal shell
- Insulation: glass filled polyester, gray, UL94V-0 • Low profile
- Contact material: copper alloy
- Plating: 100µ" nickel underplating; 30µ" gold wiping area
- Strain relief: stainless steel
- Accepts 26-28AWG solid or stranded
- Shell: steel/tin plated • Current rating: 1A
- Open end; 0.120" diameter mounting style
- Insulation resistance: 1MΩ @ 500VDC
- Withstanding voltage: 1000V_{RMS}


1577881


1577961

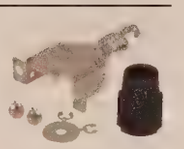
Plugs

Part No.	Product No.	Positions	1	10	50
1577881	8209-6000℞	9	$4.95	$4.35	$4.15
1577910	8215-6000℞♠	15	5.65	5.16	4.75
1577928	8225-6000℞♠	25	6.39	5.39	5.36
1577944	8237-6000℞♠	37	8.29	6.97	6.93

Sockets

Part No.	Product No.	Positions	1	10	50
1577961	8309-6000℞	9	$4.25	$3.69	$3.55
1577987	8315-6000℞♠	15	6.99	6.52	6.11
1578007	8325-6000℞♠	25	6.45	5.84	5.45
1578031	8337-6000℞♠	37	8.39	7.07	7.03

3M D-Sub EMI Metal Junction Shell



- Provides EMI/ESD protection
- Material: steel with nickel plating
- Cover nut: glass filled polyester (PBT), UL94V-0 black
- For 9-position D-Sub connectors

Part No.	Product No.	Conn. Size	1	10	50
1576044	3357-9209℞♠	9	$3.85	$3.51	$3.32

3M D-Sub Ribbon Connector Mounting Hardware Kits

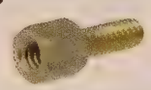
- **1575914/1575931**: kit includes 2pcs. nut-4-40 UNC, lock washer, 0.03" dia. spacer, jack socket screw
- **1575990**: 2pcs. jack screw


1575931

Part No.	Product No.	Description	1	10
1575914	3341-1L℞♠	0.50" jack socket	$1.75	$1.54
1575931	3341-1S℞♠	0.13" jack socket	1.49	1.44
1575990	3342-2℞♠	0.62" jack screw	1.23	1.05

KEYSTONE D-Sub Connector Jack Screws

- 4-40 threaded
- Steel, zinc plated
- Length: .312"


1582508

Part No.	Product No.	Description	1	10	100
1582209	7230℞	Gold color	$.25	$.157	$.147
1582508	7230-5℞	Clear chromate	.29	.276	.246

AMP AMPLIMITE™ D-Sub Screw Lock Kit

- Zinc plated 200µ" - 400µ" clear chromate coating NEW
- Includes 2 female screw locks (4-40 thread, 0.187" hex), 2 washers, 2 lock washers, 2 nuts



Part No.	Product No.	Length	1	10
850726	5205817-3℞♠	0.312"	$1.55	$1.36

Cinch D-Sub Metal Shells

- Insulator material: glass filled polyester (black) UL94V-0 rated • Current: 5A
- Insulation resistance: 5000MΩ max. (initial)
- Durability: 500 mating cycles

Right Angle

- Contact material: socket – phosphor bronze (stamped); plugs – brass (stamped)
- Contact plating: gold flash, tin/lead on tails over nickel
- Metal shell: steel w/ tin plating (grounding indents on plugs) • Contact resistance: 15mΩ max.
- 0.318" footprint • Boardlock: brass w/ tin plating
- Female screw locks: brass w/ nickel plating
- Withstanding voltage: 1250V_{RMS}


446483

With 4-40 threaded inserts

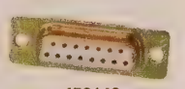
Part No.	Product No.	Positions	Gender	1	25
1719885	DEKL-9PATI-E♠	9	M	$.88	$.54
1775908	DEKL-9SAT-E♠	9	F	.84	.73
446483	DBKL-25SAT-E25	25	F	1.23	1.09

With female screw locks

Part No.	Product No.	Positions	Gender	1	25
1719893	DEKL-9PATI-F	9	M	$.85	$.76

D Series w/ Mounting Holes, Solder Cup

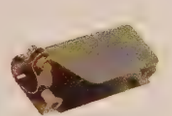
- Connector shell: steel w/ zinc plating, yellow chromate finish or tin plating (grounding indents on plugs)
- 4-40 clinch nut: steel w/ cadmium plating and yellow chromate finish
- Contact material: copper alloy; plating: stamped contacts – gold flash
- Contact resistance: 2.7mΩ max.
- Dual float bushing: stainless steel, passivated
- Withstanding voltage: 1250V_{RMS}


458142

Part No.	Product No.	Positions	Gender	1	25
458142	DA-15S	15	F	$2.39	$2.16
458151	DB-25S	25	F	3.59	2.87

Cinch D-Sub Metal Junction Shells

- Shell material: zinc plated low carbon steel with yellow chromate finish
- Clamp & screw: zinc plated steel with yellow chromate finish
- Stop nut: zinc plated brass with yellow chromate finish

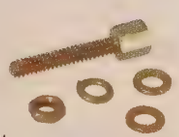

1775916

Round Clamp

Part No.	Product No.	Shell Size	Density	1	25
1775916	DA-20961♠	A	15	$6.35	$6.05
1719851	DB-20962	B	25	5.19	4.09

Cinch D-Sub Hardware

- Female screw locks: (2) washers, lockwasher, hex nut and screw locks are steel with zinc plating and yellow chromate finish
- Male screw locks: clip and screw are steel with zinc plating and yellow chromate finish


444912

Part No.	Product No.	Description	Length	1	25
1719746	D-20418-2♠	Screw lock F	0.312"	$1.35	$1.20
444912	D-20418-39	Screw lock F	0.628"	1.45	1.35
1775924	D-20419-0♠	Screw lock M	0.250"	.52	.47
1775932	D-20419-16♠	Screw lock M	0.250"	.81	.71
1719771	D-20420-12♠	Screw lock M	0.281"	.91	.86

AMP Plastic Hoods for D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel • Screw plating: zinc



Part No.	Product No.	Positions	1	10	100
230893	205729-1	9	$2.25	$1.84	$1.69

AMP AMPLIMITE 180° Exit Cable Clamp Kit

- 180° cable exit
- **861003**: 0.480" max. dia. cable; carbon steel, zinc plated 4-40 hex nut & 4-40 mounting screws; steel zinc plated 4-40 screws, zinc alloy, nickel over copper cable clamps,
- **755315/961215**: zinc alloy, nickel over copper cable clamps, steel zinc plated w/ clear chromate coating head screws, hex nuts, & mounting screws, flexible PVC UL94V-0 rated black grommets (accepts 0.200", 0.240", 0.270" 0.310", & 0.350" dia. cables)


NEW

Part No.	Product No.	Position	1	10
961215	5478676-1℞♠	9	$4.99	$4.76
755315	5748676-3℞♠	25	6.25	5.11
861003	745173-2℞♠	25	8.19	7.02

D-Sub Connector Hoods


15086 Plastic


25620 Metallized

- Use with D-sub solder cup and housing style connectors (hardware included) JAMECO EXCLUSIVE

D Series: plastic hood with strain relief (gray)
MD Series: metal coated plastic hood w/ strain relief
MH Series: die-cast metal hood with strain relief

Part No.	Cross Ref.	Connector	1	10	100	1000
15722	DB9H℞	9-pin	$.55	$.51	$.44	$.39
25620	MDB9H	9-pin	.69	.56	.445	.399
147741	MHDB9℞	9-pin	1.59	1.43	1.27	1.10
15019	DA15H℞	15-pin	.69	.64	.57	.497
25567	MDA15H℞	15-pin	.75	.68	.54	.405
15086	DB25H℞	25-pin	.54	.468	.42	.384
25604	MDB25H℞	25-pin	.75	.60	.509	.424
15106	MHDB25⊕	25-pin	1.69	1.48	1.37	1.03
15457	DC37H℞	37-pin	.71	.66	.54	.468
25612	MDC37H℞	37-pin	.85	.79	.68	.509
15660	DD50H℞	50-pin	1.03	.88	.78	.67

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG



- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W

Part No.	Product No.	1	10	25
99443	HT202A℞	$9.49	$8.55	$7.69

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP AMPLIMITE™ D-Sub Connectors

NEW



- Housing: 94V-0 rated thermoplastic, black • Front shell: steel, tin-plated • Contacts: **1)** brass; **2)** phosphor bronze
- Plating: **A:** 30µ" gold mating end, tin-lead terminating end **B:** gold flash mating end, tin-lead terminating end **C:** 30µ" gold on mating area, 100µ" bright tin-lead on terminating end **D:** 30µ" gold in mating end, 120µ" tin in solder area **E:** tin-lead

HD-20 Right Angle PCB Mount, 0.318" Setback

Without Board Locks, w/ Thread Inserts

Part No.	Product No.	Contact/ Plating	Pos.	Gender	1	25
614125	745781-4	2A	9	F	$2.35	$2.21
614248	745250-4	1A	9	M	2.19	2.00
614141	745783-4	2A	25	F	3.05	(2.29)

Without Board Locks, w/ Fixed Female Screw Locks

Part No.	Product No.	Contact/ Plating	Pos.	Gender	1	25
863519	747250-6♠	1A	9	M	$6.89	$5.77
862612	745781-6♠	2A	9	F	4.99	4.52

With Board Locks, w/ Thread Inserts

Part No.	Product No.	Contact/ Plating	Pos.	Gender	1	25
614504	747844-4	2A	9	F	$2.05	$1.91
960837	5747840-3♻♠	1D	9	M	2.09	1.72
614441	747840-4	1A	9	M	1.45	1.29
614539	747845-4	2A	15	F	1.79	1.65
614467	747841-4	1A	15	M	2.19	1.98
614555	747846-4	2A	25	F	3.55	(2.66)
614475	747842-4	1A	25	M	3.25	2.92
614547	747846-3	2B	25	F	2.55	2.15

With Board Locks, w/ Fixed Female Screw Locks

Part No.	Product No.	Contact/ Plating	Pos.	Gender	1	25
837636	747846-5♠	2B	25	F	$2.65	$2.55
853290	5747844-6♻♠	2C	9	M	2.69	2.25
853231	5747840-6♻♠	1A	9	M	3.25	2.70

HDP-20 Crimp Snap-In Contact Connector

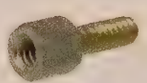
With 4-40 Threaded Inserts

Part No.	Product No.	Plating	Pos.	Gender	1	10
838989	207516-3♻♠	E	25	F	$4.95	$3.83

Accessory

Short Screw Lock

- 4.40 thread w/ clear chromate
- 0.250" long



Minimum order 5 pieces

Part No.	Product No.	5	100
839252	5207953-3♻♠	$.181	$.167

HD-20 Straight Posted PCB Connectors

With 4-40 Insert

Part No.	Product No.	Plating	Pos.	Gender	1	10
837409	2-5748003-0♻♠1D		9	M	$4.35	$3.80
755286	5747871-8♻♠ 1D		9	M	6.89	5.77
862997	745968-8♠	1A	25	M	7.85	7.05
863658	747301-8♠	1A	37	F	8.79	7.91
863711	747375-8♠	1A	37	M	9.75	8.78

With Retention 4-40 Insert

Part No.	Product No.	Plating	Pos.	Gender	1	10
838487	2-747706-0♠	2A	9	F	$4.85	$4.35

With Standard Mounting Holes

Part No.	Product No.	Plating	Pos.	Gender	1	10
863594	747301-2♠	1A	37	F	$10.05	$8.78

With Grounding Indents

Part No.	Product No.	Plating	Pos.	Gender	1	10
862049	745410-9♠	1A	9	M	$5.35	$4.67

HD-22 Right Angle Posted

0.318" Setback w/ Board Locks & Threaded Inserts

Part No.	Product No.	Plating	Pos.	Gender	1	10
1405333	5749767-1♻♠	2D	15	M	$3.89	$3.00

0.350" setback w/ 4-40 Screw Locks

Part No.	Product No.	Plating	Pos.	Gender	1	10
740105	1-470250-1♻♠	1D	15	M	$.99	$.89

0.350" setback w/ 4-40 Threaded Inserts

Part No.	Product No.	Plating	Pos.	Gender	1	10
740113	1-734530-3♻♠	2D	15	F	$1.69	$1.61

HD-20 Low Profile Metal Shell (For Round Conductor Flat Ribbon Cable)

With Standard Mounting Holes

Part No.	Product No.	Plating	Pos.	Gender	1	10
614301	747303-2	2C	25	F	$7.25	$6.15
614344	747306-2	2C	25	M	7.09	(6.05)

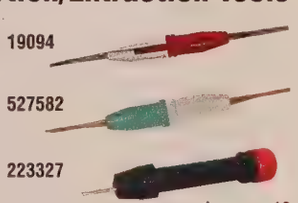
Thermoplastic Body with Standard Mounting Holes

Part No.	Product No.	Plating	Pos.	Gender	1	10
614387	747318-4	2C	9	F	$4.45	$3.86
614408	747321-4	2C	9	M	4.85	(4.62)

AMP D-Sub Pin Insertion/Extraction Tools

19094/527582: Plastic body; metal tips

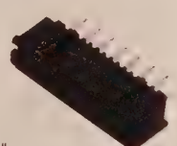
223327: Handle with .050" hex wrench and exchangeable tips



Part No.	Description	1	10
19094	Red/white plastic body	$3.65	$3.21
527582	AMP# 91067-1	6.89	6.55
223327	AMP# 91285-1♻	19.99	18.99

AMP AMPMODU™ Interconnection ZIF-Line Connector

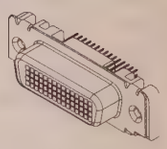
- 0.050" x 0.050" centerline cable to board connector
- Housing and cover: black thermoplastic, flame retardant, 94V-0 rated
- Contacts: phosphor bronze, plated 150µ" bright tin over 50µ" nickel on entire contact



Part No.	Product No.	Positions	1	10	100
752667	487576-6♻	14	$1.79	$1.63	$1.48

molex .050" (1.27mm) Pitch LFH™ Matrix 50 Shielded Receptacle

60 Circuit, Vertical



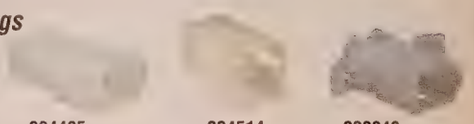
- High-performance, Low Force Helix terminal with contact layout .050" x .050"
- Same size as 15-pin D-sub for standard panel cut-outs and hardware use
- Voltage: 40V
- Current: 1A
- Durability: 50 cycles
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 500V
- Insulation resistance: 100MΩ min.
- Housing: glass filled polymer, UL94V-0
- Contact: beryllium copper alloy
- Plating: 30µ" min. gold over nickel in contact area, 100µ" min. tin/lead over nickel in PC tail area, 150µ" min. bright tin over nickel all over copper flash on shields

Part No.	Product No.	1	10	100
802222	70928-0002♻	$16.39	$15.64	$14.88

molex .062" (1.57mm) Power Connectors

- Passive friction lock • Housing: nylon; UL94V-2
- Voltage: 250V • Current: 5.0A
- Polarized housing assures proper mating
- Dielectric withstanding voltage: 1500VAC$_{RMS}$
- Contact retention to housing: 20 lbs. minimum
- Temperature range: -40°C to +105°C

Plugs



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224485	03-06-2023♻ *	2	$.30	$.18	$.15
224506	03-06-2042♻ *	4	.24	.223	.206
224514	03-06-2044♻ **	4	.31	.242	.227

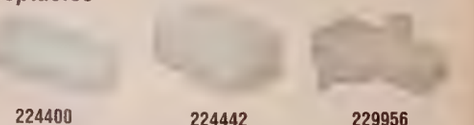
*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948	03-06-2024♻ *	2	$.20	$.186	(.14)
230041	03-06-2062♻ **	6	.47	.26	.24

*In-line **Grid

Receptacles



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224400	03-06-1023♻ *	2	$.33	$.198	$.149
224418	03-06-1032♻ *	3	.31	.19	.16
224426	03-06-1042♻ *	4	.51	.417	.298
224434	03-06-1044♻ **	4	.39	.27	.24
224442	03-06-1062♻ **	6	.54	.336	.30

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956	03-06-1022♻ *	2	$.31	$.16	$.14

*In-line

♠ This product typically requires one additional day to ship. Please request ***'ship partial'*** if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Power Connectors are available online at www.Jameco.com/Interconnect

.093" (2.36mm) Power Connectors

- Passive friction lock
- Housing: nylon; UL94V-2
- Voltage: 250V
- Current: 12A per circuit
- Dielectric withstanding voltage: 1500VAC$_{RMS}$
- Contact retention to housing: 20 lbs. minimum
- Temperature range: -40°C to +105°C

Plugs



224071 229825 230105

Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224071	03-09-2022 *	2	$.30	$.25	$.18
224080	03-09-2032 *	3	.41	.32	.21
224098	03-09-2042 *	4	.45	.22	.20
229825	03-09-2049 **	4	.46	.368	.351
224101	03-09-2062 **	6	.49	.42	.315

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105	03-09-2021 *	2	$.21	$.165	$.124

*In-line **Grid

Receptacles



224143 229817 230113

Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224143	03-09-1022 *	2	$.30	$.25	$.18
224151	03-09-1032 *	3	.44	.25	.16
224160	03-09-1042 *	4	.39	.299	.224
229817	03-09-1049 **	4	.34	.299	.257
224186	03-09-1094 **	9	.83	.71	.468

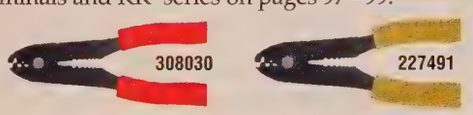
With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113	03-09-1027 *	2	$.23	$.188	$.168

*In-line **Grid

Hand Crimp Tools

Designed to crimp terminals, strip and cut wires, and cut bolts. For Molex .062" & .093" crimp pin terminals and KK® series on pages 97 - 99.



308030 227491

308030: Cuts & strips 14-24 AWG wires
227491: Cuts & strips 18-30 AWG wires

Part No.	Product No.	Length	Color	1	5
308030	W-HT-1919	8.3"L	Red	$14.99	$13.99
227491	W-HT-1921	8.3"L	Yellow	14.99	13.99

Connector Extraction Tools



142156/142236 For .093" Connectors
227467/227395 For .062" Connectors

Part No.	Product No.	AWG	1	5
142156	W-HT-2285	18-30	$14.49	$13.49
227467	W-HT-2023	18-30	11.99	10.99
142236	W-HT-2038	14-30	14.49	13.49
227395	W-HT-2054	14-30	12.59	11.54

.062" (1.57mm) & .093" (2.36mm) Contacts

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating
- **Minimum order 10 pieces**

Crimp-Type Contacts



.062" (1.57mm)

Part No.	Product No.	Gender	AWG	10	100	1000
224565	02-06-2103	M	18-24	$.18	$.057	$.038
224581	02-06-2132	M	24-30	.188	.05	.04
224557	02-06-1103	F	18-24	.18	.057	.038
224573	02-06-1132	F	24-30	.093	.075	.062

.062" (1.57mm) Reels

Part No.	Product No.	Gender	AWG	10	100	1000
734645	02-06-2101	M	18-24	$.022	$.02	$.018
734637	02-06-1101	F	18-24	.027	.024	.021

.093" (2.36mm)

Part No.	Product No.	Gender	AWG	10	100	1000
224207	02-09-2118	M	18-22	$.19	$.06	$.04
224223	02-09-2103	M	14-20	.18	.059	.04
224215	02-09-1119	F	18-22	.20	.07	.04
224231	02-09-1104	F	14-20	.18	.059	.042

.093" (2.36mm) Reel

Part No.	Product No.	Gender	AWG	Price
734733	02-09-2101 ♠	M	14-20	★ Call/Web

★ Please call or visit our website for minimum order quantity and pricing

Solder-Tail Contact



QSave Quantity Save

.093" (2.36mm)

Part No.	Product No.	Gender	10	100	1000
224258	02-09-1134	Female	$.20	$.16	$.12

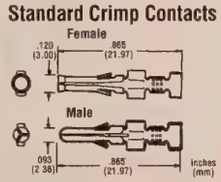
.093" Power Connector Kit

Assortment kit contains mating sets of housings and pins.

- Volt.: 250VAC
- Current: 9A
- Temp. range: -40°C to +105°C
- 2 each 4-pin plugs & receptacles, 10 each female and male contacts



Standard Crimp Contacts



Includes:
Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Product No.	Description	1	10	50
142201	1490	4-pin kit	$5.69	$5.15	$4.65

Economy Interconnect System

.098" Horizontal Mount Post Header

- Housing: 6/6 nylon, UL94V-0
- Posts: brass/tin

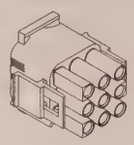
NEW



Part No.	Product No.	Position	1	10	100
742320	171826-4	4	$.52	$.49	$.46

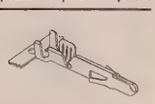
.084" (2.13mm) MLX Pin and Socket Plug

- Intermateable, intermountable,and interchangeable with industry standard versions
- Positive locks
- Voltage: 600V
- Current: 13.5A
- Fully isolated contacts
- Insulation resistance: 1000Mfl min.
- Dielectric withstanding voltage: 2900V (headers), 5000V (wire-to-wire)
- Anti-stress positioning tabs to reduce breakage
- Plug housing: white nylon, UL 94V-2 rated
- Operating temperature: -55°C to 105°C



Part No.	Prod. No.	Grid Layout	1	10	100
800921	50-84-1020	1 x 2	$.23	$.17	$.14

Crimp Terminal

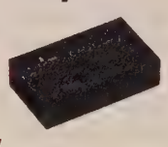


- 14-20 AWG
- Tin plated
- Male
- **Minimum order 10 pieces**

Part No.	Prod. No.	10	100	500
734709	02-08-2003	$.064	$.048	$.039

2.54mm (0.100") C-Grid® Shunt/Jumper

NEW



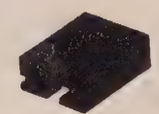
- Voltage: 250V
- Current: 5.0A
- Open top
- Contact res.: 15mΩ max., gold
- Dielectric w/standing volt.: 1500V
- Insulation res.: 100k mΩ min.
- Housing: glass filled nylon polyester, UL94V-0
- Contact/plating: phosphor bronze, 15µ" gold

Minimum order 5 pieces

Part No.	Product No.	Positions	5	50
741503	15-29-1024 ♠	2	$.233	$.212

AMP AMPMODU™ Shunts

2-Position Low Profile



421454

- 94V-0 rated housing
- 0.100" centerlines
- 944001/841467: red
- Contacts: phosphor bronze
- One-piece contact construction
- High normal forces
- Black
- **Minimum order 10 pieces**

NEW

Part No.	Product No.	Plating	10	100	500
836908	2-382811-1	Tin	$.092	$.074	$.073
421454	382811-8	5µ" gold	.099	.098	.088
944001	382811-9	5µ" gold	.142	.129	.118
841467	811545-2	5µ" gold	.151	.121	.109

Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com



♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

.100" (2.54mm) Male Solid Headers (Gold)

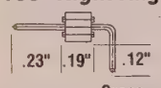
JAMECO EXCLUSIVE

- Solder to PC boards for instant plug-in access via shorting blocks, pg 96
- Insulator: UL94V-0 polyester
- Contact material: phosphor bronze
- .025" square posts on a .100" x .100" matrix
- Current rating: 1 amp • Contact area: gold
- Snap apart to fit your application
- Temperature range: -55°C to +120°C
- Use with crimp connector housing, pg 103

Quantity Save

✪ Blue Part No. = Limited Quantity Available

.100" Right Angle Single Row Male Headers



Cross

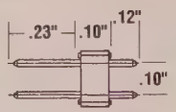

153728


153728

Part No.	Ref. No.	Contacts	1	10	100	1000
103271	RMH36	36	$.90	$.81	$.65	$.486

.100" Straight Double Row Male Headers


67821




109567

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
115027	923804DS⊕	4	✳	$.14	$.12	$.09
115035	923806DS⊕	6	.23	.211	.187	.164
109517	923808DS	8	.25	.23	.18	.16
67821	923810DS	10	.35	.29	.25	.19
203810	923812DS⊕	12	.60	.55	.49	.44
118456	923814DS	14	.45	.40	.36	.33
109567	923816DS⊕✪	16	.55	.49	.45	.39
203828	923818DS⊕	18	.78	.71	.66	.57
53480	923820DS	20	.65	.57	.49	.46
203836	923822DS⊕	22	.78	.70	.56	.42
203844	923824DS⊕	24	.70	.65	.59	.49
203852	923828DS⊕	28	.75	.69	.55	.39
203861	923832DS⊕	32	.80	.74	.59	.52
53517	923834DS	34	.85	.78	.69	.62
203888	923836DS✪	36	.96	.87	.70	.516
53560	923850DS	50	.72	.62	.55	.413
68574	923860DS⊕	60	.79	.71	.57	.423
103405	923872DS⊕	72	.94	.83	.76	.64
117197	923880DS	80	1.08	.96	.90	.78

Great Prices on Special Buys✳

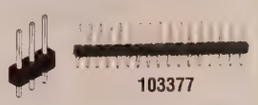
53495	923826DS	26	$.35	$.299	$.237	$.178
53532	923840DS⊕	40	.59	.53	.42	.31

✳Manufacturer may vary

.100" Straight Single Row Male Headers

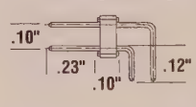


Cross



Part No.	Ref. No.	Contacts	1	10	100	1000
108338	SMH02	2	$.20	$.16	$.14	$.13
109576	SMH03	3	.20	.17	.15	.135
117560	SMH04	4	.21	.17	.15	.135
153700	SMH06	6	.22	.17	.15	.135
153702	SMH08	8	.22	.20	.17	.15
103393	SMH10	10	.24	.20	.16	.12
103377	SMH17	17	.28	.16	.14	.13
103369	SMH20	20	.30	.27	.248	.186
202825	SMH22	22	.39	.36	.29	.21
103351	SMH25	25	.40	.266	.224	.171
103342	SMH30	30	.42	.378	.30	.226
68339	SMH36⊕	36	.44	.399	.357	.268
160882	SMH40	40	.57	.52	.47	.42

.100" Right Angle Double Row Male Headers

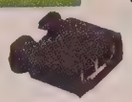



53575


53575

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
203908	923804DR⊕	4	$.42	$.378	$.302	$.226
203917	923806DR	6	.49	.44	.352	.264
203924	923808DR⊕	8	.49	.44	.352	.264
203932	923810DR⊕	10	.69	.62	.56	.46
203959	923814DR⊕	14	.65	.58	.47	.352
203967	923816DR⊕	16	.78	.71	.64	.516
53575	923820DR⊕	20	.69	.64	.58	.51
53584	923826DR	26	.75	.65	.53	.398
53605	923840DR	40	.89	.79	.60	.53
53612	923850DR⊕	50	.95	.81	.62	.465
103413	923872DR⊕✪	72	1.15	.99	.89	.75
139563	923880DR⊕	80	1.49	1.25	1.15	1.05

.100" & 2mm Shorting Blocks


22023 (open)


112432 (closed)


152671 (closed)

- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color codes strip line plugs • Mate with male headers, above
- Pin material: phosphor bronze

Open: open on top to allow for a test point
Closed: closed top **119264:** 2mm (for disk drives)

- **Prepackaged: please order in increments of 10**

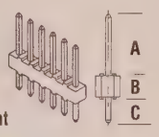
✪ Blue Part No. = Limited Quantity Available

Part No.	Description	10	100	1000
22023	Top open, black (.100")⊕	$.12	$.09	$.06
119264	Top open, black (2mm)	.15	.13	.096
112424	Top open, blue (.100")⊕✪	.13	.099	.067
112417	Top open, red (.100")	.12	.09	.06
19141	Top closed, black (.100")	.12	.09	.06
112442	Top closed, blue (.100")	.12	.09	.06
112432	Top closed, red (.100")⊕	.20	.18	.12
152671	Top closed, black (.100")	.19	.15	.12

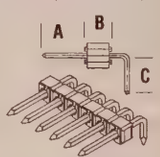
.100" (2.54mm) Male Breakaway Headers

- Insulation resistance: 1,000MΩ min.
- Voltage rating: 250VDC • Current rating: 3A
- Contact resistance: 20mΩ initial max.
- Contact: 0.64mm (0.025") square
- Withstanding voltage: 500VAC/1 minute
- Housing: glass filled polyester, black (UL94V-0)

JAMECO EXCLUSIVE



Straight



Right Angle

✪ Blue Part No. = Limited Quantity Available

Tin Straight Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686268	22-28-4100	10	$.47	$.399	$.355
686276	22-28-4360	36	.96	.83	.76

Gold Straight Single Row

- (A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685935	22-28-4125	12	$2.15	$1.88	$1.85

Gold Straight Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686381	22-28-4363✪	36	$1.39	$1.09	$1.04

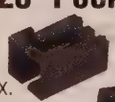
Tin Right Angle Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686495	22-28-8360✪	36	$1.29	$1.02	$.97

.100" (2.54mm) Pitch SL™ Wire-to-Board Shrouded Headers, .120" Pocket

- Voltage: 250V
- Current: 3.0A
- Contact resistance: 15mΩ max.
- Insulation resistance: 1000MΩ min.
- Dielectric w/standing voltage: 1500V
- Housing: black glass filled PTC, UL94V-0
- Contact: phosphor bronze, 0.025" square


884627


884731

NEW

Single Row, Vertical, 15µ" Gold

Part No.	Product No.	Positions	1	10	100
884627	70543-0001	2	$.71	$.69	$.55
884643	70543-0002♠	3	.80	.67	.53
884686	70543-0004♠	5	.87	.79	.72
884715	70543-0005♠	6	.89	.84	.78

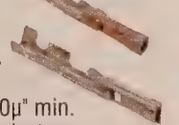
Single Row, Rt Angle Low Profile, 15µ" Gold

Part No.	Product No.	Positions	1	10	100
884731	70553-0001♠	2	$.65	$.57	$.49

.100" (2.54mm) Pitch SL™ Crimp Terminals

- Volt.: 250V • Current: 3.0A
- Insulation res.: 10,000MΩ min.
- Contact res.: 15mΩ max.
- Contact: copper alloy


741685


741677

Plating:

A: 30µ" gold in select area over 50µ" min. nickel overall with 75µ" tin in select area
B: 15µ" gold in select area over 50µ" min. nickel overall with 75µ" tin in select area
C: 150µ tin over 50µ" nickel overall

Female Crimp Pin (Bulk)

Minimum order 10 pieces

Part No.	Product No.	AWG	Plating	10	100
741685	16-02-0103	22-24	B	$.09	$.08

Female Crimp Pins (Reel)

Part No.	Product No.	AWG	Plating	10	100
741677	16-02-0086	22-24	C	$.031	$.029
741693	16-02-0088♠	22-24	A	★	Call

★ Please call or visit our website for minimum order quantity and pricing

KK® Series .100" (2.54mm) Pitch Crimp Terminal

- Tin plating
- Female • 22 to 30 AWG
- **Minimum order 5 pieces**

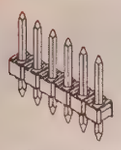


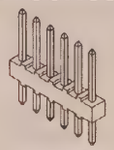
Part No.	Product No.	5	100
736456	08-50-0005	$.135	$.122

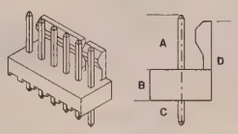
♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

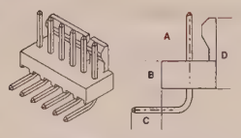
RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

KK® Series .100" (2.54mm) Male Headers


Breakaway Vertical

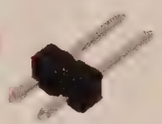

Straight Solid

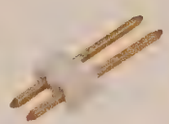

Straight Friction Lock


Right Angle Friction Lock

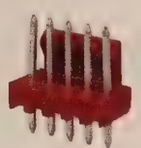
- Voltage: 250V • Current: 4.0A
- Contact resistance: 20mΩ max.
- Housing: nylon, UL94V-0
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 50,000MΩ min.
- Contact: brass, 0 – 6.4mm (0.25") square
- Durability: 100 cycles max. (tin: 25 cycles max.)

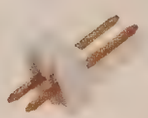
NEW


879406


878868


233605


232291


879588


233461

Breakaway Headers Vertical

- Dimensions: (A) .740"; (B) .100"; (C) .125"
- Phosphor bronze

Minimum order 5 pieces

Part No.	Product No.	Positions	5	100
879406	22-28-4020 ♠	2 (tin)	$.225	$.203
879422	22-28-4023 ♠	2 (15µ" gold)	.225	.202

Straight Solid Headers (Gold)

- Dimensions: (A) .295"; (B) .130"; (C) .135"

Minimum order 5 pieces

Part No.	Product No.	Positions	5	100
878868	22-10-2021 ♠	2	$.132	$.124

Straight Friction Lock Headers (Gold)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233584	22-11-2022	2	$.54	$.46	$.29
233592	22-11-2032	3	.85	.74	.47
233605	22-11-2042	4	.87	.76	.49
233621	22-11-2062	6	1.34	1.17	.76

Straight Friction Lock Headers (Tin)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266	22-23-2021	2	$.29	$.23	$.15
232274	22-23-2031	3	.35	.30	.19
232282	22-23-2041	4	.42	.36	.23
232291	22-23-2051	5	.49	.432	.291
232303	22-23-2061	6	.55	.48	.31
232320	22-23-2081	8	.72	.63	.41
232338	22-23-2091	9	.69	.59	.434
232346	22-23-2101	10	.80	.71	.53
232354	22-23-2121	12	.83	.58	.435
879174	22-23-2141 ♠	14	.56	.54	.52

Straight Friction Lock Headers (Tin)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .460"

Minimum order 5 pieces

Part No.	Product No.	Positions	5	100
879254	22-27-2021 ♠	2	$.283	$.272
879271	22-27-2031 ♠	3	.186	.176
879300	22-27-2041 ♠	4	.46	.44
879342	22-27-2061 ♠	6	.353	.294
879369	22-27-2071 ♠	7	.407	.37
879385	22-27-2081 ♠	8	.441	.323

Straight Friction Lock Headers (Gold)

- Dimensions: (A) .295"; (B) .165"; (C) .140"; (D) .460"

Part No.	Product No.	Positions	1	10	100
879588	22-29-2021 ♠	2	$.50	$.47	$.45
879617	22-29-2031 ♠	3	.55	.52	.49

Right Angle Friction Lock Headers (Tin)

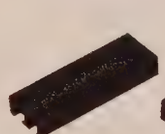
- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

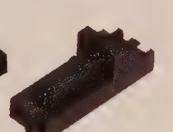
Part No.	Product No.	Positions	1	10	100
233437	22-05-3021	2	$.42	$.36	$.22
233445	22-05-3031	3	.43	.41	.308
233453	22-05-3041	4	.55	.423	.317
233461	22-05-3051	5	.77	.65	.49
233470	22-05-3061	6	.85	.74	.48
233496	22-05-3081	8	.82	.67	.63

.100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housing

- Housing: black glass filled polyester, UL94V-0

NEW


884301


884328

✳ Minimum order 10 pieces

Single Row Version A, Non-polarized

Part No.	Product No.	Positions	1	10	100
884301	50-57-9002	2	$.52	$.46	$.30

Single Row Version G, Positive Latch

Part No.	Product No.	Positions	1	10	100
884328	50-57-9402	2	$.37	$.349	$.314
884379	50-57-9404	4	.37	.34	.32
884395	50-57-5405	5	✳	.141	.132

KK® Series Hand Crimp Tool

- Works with KK series 0.100" crimp terminals
- Small handle spread which make this style tool ideally suited for end users
- Ratchet safety release that ensures consistent performance
- Precision end user friendly terminal locator wire stop holds terminals in the proper crimping position

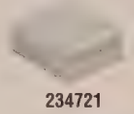


NEW

Part No.	Product No.	Description	1	10
739518	11-01-0185 ♠	Hand crimp tool	$257.55	$244.68

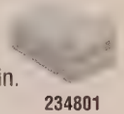
KK® Series .100" (2.54mm) Female Housing & Crimp Terminals

- Voltage: 250V
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage.: 1500VAC
- Insulation resistance: 50kMΩ


234721

Housing Material:

- Contact insertion force: 1.5 lbs. max.
- Contact retention to housing: 8 lbs. min.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C


234801

Housing with Locking Ramp

Part No.	Product No.	Positions	1	10	100
234704	22-01-2027	2	$.29	$.15	$.09
234712	22-01-2037	3	.29	.20	.12
234721	22-01-2047	4	.29	.24	.15
234739	22-01-2057	5	.33	.28	.17
234747	22-01-2067	6	.36	.32	.20
234771	22-01-2107	10	.61	.53	.398

Housing with Locking Ramp & Polarizing Ribs

Part No.	Product No.	Positions	1	10	100
234798	22-01-3027	2	$.29	$.17	$.10
234801	22-01-3037	3	.22	.188	.141
234819	22-01-3047	4	.33	.287	.188
234827	22-01-3057	5	.36	.314	.21
234835	22-01-3067	6	.38	.237	.178
234851	22-01-3087	8	.57	.50	.334
234878	22-01-3107	10	.69	.59	.443

Crimp Terminals


234931


462969


463005

- Current: phosphor bronze – 4.0A max., brass – 2.5A max.
- Material: 736501/234923/234931/1297803: brass 736595/462969/463005: phosphor bronze
- Accommodates 22 to 30 AWG
- Insulation range: 0.062" (1.58mm) diameter max.

Minimum order 10 pieces

Part No.	Product No.	Plating	10	100	1000
736501	08-50-0113	Tin	$.088	$.078	$.069
234923	08-50-0114	Tin	.065	.048	.029
234931	08-55-0102	15µ" gold	.22	.17	.11
736595	08-52-0123	Tin	.088	.078	.069
462969	08-65-0805	Tin (cat ear)	.119	.106	.088
463005	08-65-0816	15µ" gold	.147	.14	.133

Reel

Part No.	Product No.	Plating	Price
736616	08-55-0101 ♠	15µ" gold ★	Call/Web
1297803	08-56-0109 ♠	15µ" gold ★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

Polarizing Peg

Part No.	Product No.	Plating	10	100	1000
741327	15-04-9209 ♠	—	$.086	$.061	$.041

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

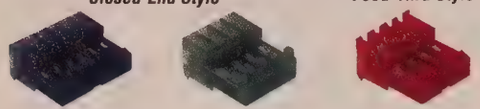
♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP MTA-100 .100" (2.54mm) IDC Connectors

- Voltage rating: 250VAC • Current rating: 5A
- Low-level resistance: 6mΩ max. initial
- Dielectric withstand: 750VAC/1 min.
- Insulation resistance: 50kMΩ min.
- Contacts: phosphor bronze, tin-plated

Closed-End Style *Feed-Thru Style*



w/o Polarizing Tab w/ Polarizing Tab w/o Polarizing Tab

Closed-End Style

Without Polarizing Tabs w/ Locking Ramp

✳ Minimum order 10 pieces

Part No.	Product No.	Pos.	AWG	Color	1	10
750830	3-640440-2≷	2	22	Red	✳	$.099
750848	3-640440-3≷	3	22	Red	✳	.108
524710	640440-4	4	22	Red	.25	.194
841598	3-640440-4≷	4	22	Red	.21	.196
750864	3-640440-6≷	6	22	Red	.29	.27
750881	3-640440-8≷	8	22	Red	.37	.278
524681	1-640440-2	12	22	Red	.49	.45
741829	1-640440-5	15	22	Red	1.29	1.15
741837	1-640440-6	16	22	Red	1.25	.94
524824	640442-2	2	26	Blue	✳	.11
854621	640442-3♠	3	26	Blue	✳	.116
524832	640442-4	4	26	Blue	.24	.18

With Polarizing Tabs & Locking Ramp

✳ Minimum order 10 pieces

Part No.	Product No.	Pos.	AWG	Color	1	10
858082	643813-2	2	22	Red	✳	$.126
858146	643813-6	6	22	Red	.40	.30
923462	3-643815-3≷	3	26	Blue	✳	.12

Feed-Thru Style

Without Polarizing Tabs w/ Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	Pricing
923227	3-640620-8≷♠	8	22	Red	★ Call

★ Please call or visit our website for minimum order quantity and pricing.

Molded DOC Cover

NEW

- 0.060" max. O.D. wire

Part No.	Product No.	Description	1	10
857653	643075-8≷♠	8-circuit	$.82	$.74

AMP MTA-100 .100" (2.54mm) Solid Headers

Straight Friction Lock

- 0.025" square posts • Tin-plated
- Housing: nylon UL94V-0 rated, white polyester
- Posts: copper alloy, tin plated

Straight Rt Angle

✳ Minimum order 5 pieces

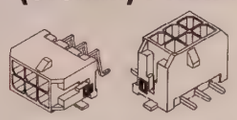
Part No.	Product No.	Positions	1	5	100
613931	640456-2	2	✳	$.06	$.053
613940	640456-3	3	.20	.079	.075
741968	1-640456-6≷♠	16	1.65	1.15	1.02
741925	1-640456-0≷♠	10	✳	.245	.217
741976	1-640456-8≷	18	1.85	1.37	1.15

Right Angle Friction Lock

Part No.	Product No.	Positions	1	5	100
854946	640457-8≷♠	8	✳	$.155	$.147

molex .118" (3.0mm) Pitch Micro-Fit 3.0™ Connectors

Headers



Dual Row, Right Angle Dual Row, Vertical

- Contact: brass
- Current: 5.0A max.
- Voltage: 250V
- Dielectric withstanding voltage: 1500VAC
- Contact resistance: 10mΩ max.
- Fully polarized to mating receptacle
- Insulation resistance: 1000MΩ min.
- Housing: high temperature LCP, UL94V-0

† Solderable fitting nail provides retention to PCB ‡ Solderable retention clip
Snap-in peg locks header for retention to PCB
§ "Offset termination retention" for retention to PCB during wave soldering

Single Row, Right Angle, Tin (SMT) †

Part No.	Product No.	Pos.	1	10	100
338423	43650-0212≷	2	$2.39	$2.24	$1.68
338458	43650-0312	3	2.99	2.40	1.80

Single Row, Right Angle, 15µ" Gold (SMT) ‡

Part No.	Product No.	Pos.	1	10	100
338415	43650-0210≷	2	$2.45	$2.25	$1.69
338440	43650-0310≷	3	3.55	3.19	2.40

Dual Row, Vertical, Tin (SMT) †

Part No.	Product No.	Pos.	1	10	100
338159	43045-0818≷	8	$3.35	$3.09	$2.32

Dual Row, Right Angle, 30µ" Gold (Thru-Hole) #

Part No.	Product No.	Pos.	1	10	100
883641	43045-1002≷♠	10	$3.75	$3.17	$2.58

Dual Row, Right Angle, Tin (Thru-Hole) #

Part No.	Product No.	Pos.	1	10	100
883317	43045-0400≷♠	4	$1.30	$1.16	$1.02
883536	43045-0800≷♠	8	1.99	1.69	1.39
883595	43045-1000≷♠	10	2.35	1.99	1.65

Dual Row, Vertical, Tin (Thru-Hole) §

Part No.	Product No.	Pos.	1	10	100
883368	43045-0412≷♠	4	$.95	$.82	$.72
883464	43045-0612≷♠	6	1.37	1.16	.95

Dual Row, Vertical, 30µ" Gold (Thru-Hole) §

Part No.	Product No.	Pos.	1	10	100
883579	43045-0814≷♠	8	$2.29	$2.01	$1.76
883384	43045-0414≷♠	4	1.05	.84	.72

JAMECO ValuePro Extraction Tool

For Micro-Fit Connectors

JAMECO EXCLUSIVE

- Length: 3.0"

Part No.	Cross Ref. No.	1	5
338669	11-03-0043⊕	$13.45	$12.49

JAMECO ValuePro Crimp Tool

For Micro-Fit Connectors

JAMECO EXCLUSIVE

- Length: 8.25"

Part No.	Cross Ref. No.	1	5	10
338678	HT-225D≷	$26.99	$24.83	$21.59

AMP T-Handle Tool

- For .100" (2.54mm) IDC connectors

Part No.	Product No.	Description	Price
365974	59803-1Z	.100" hand tool	$20.89

Single Row Receptacle Dual Row Receptacle 882787 Plug 882808 Plug

Receptacles/Plugs

- Positive latching to mating headers or plugs
- Fully isolated contacts • Housing: polyester, UL94V-0
- Integral pull tabs for ease in unmating
- Fully polarized to mating headers or plugs

Single Row (Receptacle)

Part No.	Product No.	Pos.	1	10	100
884037	43645-0600≷♠	6	$.50	$.44	$.39

Dual Row (Receptacles) ✳ Minimum order 5 pieces

Part No.	Product No.	Pos.	1	5	50
882867	43025-0200≷♠	2	✳	$.225	$.203
882904	43025-0600≷♠	6	✳	.407	.365
882921	43025-0800≷♠	8	✳	.225	.203
882963	43025-1200≷♠	12	✳	.225	.203
883026	43025-1800≷	18	1.55	1.39	.93
883051	43025-2000♠	20	✳	.59	.55

Dual Row (Plugs)

Part No.	Product No.	Pos.	1	5	100
882787	43020-0201♠	2 (w/o ear)	✳	$.157	$.147
882808	43020-0400≷♠	4 (w/ ear)	✳	.184	.172

Crimp Terminals

Female



Male

Type*: 1: female 2: male
A: phosphor bronze; 30µ" select gold; 100µ" tin
B: phosphor bronze; 40µ" minimum tin

• Minimum order 5 pieces

Part No.	Product No.	AWG	Type*	5	100
883131	43030-0003≷♠	20-24	1A	★	Call
883093	43030-0007≷	20-24	1B	.08	.07
883190	43030-0012≷♠	26-30	1A	.146	.126
883237	43031-0007≷	20-24	2B	.079	.07
883253	43031-0009≷♠	20-24	2A	.186	.168

★ Please call or visit our website for minimum order quantity and pricing

molex KK® Series .156" (3.96mm) Crimp Terminals

Trifurcon™ Terminals



- P/N 462774: cat ear

Type A: brass/tin Type B: phosphor bronze/tin

• Minimum order 10 pieces

Part No.	Product No.	AWG	Type	10	100
462774	08-50-0165≷	18-20	A	$.137	$.125
736544	08-50-0189≷♠	18-20	A	.031	.029
736587	08-52-0113≷♠	18-20	A	.061	.058
736712	08-58-0189≷♠	18-20	B	.57	.396

molex .156" (3.96mm) Pitch Crimp Terminal Housing

Terminal Housing with Ramp



NEW

- Use with Trifurcon™ terminals
- Voltage: 250VAC
- Contact res.: 6mΩ max.
- Insulation res.: 50kmΩ min.
- Dielectric w/standing volt.: 1500VAC
- Current: phosphor bronze: 7A; brass: 5A max.
- Housing: nylon UL94V-2

Minimum order 5 pieces

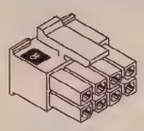
Part No.	Product No.	Positions	5	50
879730	26-03-4030≷	3	$.108	$.097

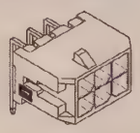
♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

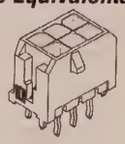
≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

.118" (3.0mm) Dual Row Micro-Fit Connectors

Molex Micro-Fit 3.0™ Series Value Equivalents


Fig. 1


Fig. 2


Fig. 3

JAMECO EXCLUSIVE


Female (1B)


Male (2A)

Dual Row Crimp Housing

- Fully isolated contacts • Wire to wire
- Housing: UL94V-0 • Fully polarized
- Contacts: tin or 30µ" gold plating over phosphor bronze • Black
- Contact resistance: 10mΩ (max.)
- Voltage/current rating: 250V @ 5.0A (max.)
- Mates with 43020 and 43045 series

Receptacle (Fig. 1)

Part No.	Cross Ref. No.	Positions	1	10	100
337674	43025-0400♻	4	$.55	$.49	$.327

Dual Row PCB Headers

- Surface mount compatible with PCB polarizing pegs
- Fully polarized to mating receptacle • Black

Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 2)

Part No.	Cross Ref. No.	Positions	1	10	100
338554	43045-0800♻	8	$.87	$.82	$.62
338212	43045-1200♻	12	.89	.84	.77
338571	43045-1400♻	14	1.59	1.52	1.32

Female & Male Contacts

Type*: **1:** female **2:** male
A: tin plating over phosphor bronze
B: 30µ" select gold over nickel over phosphor bronze

- **Prepackaged: please order in increments of 10**

Part No.	Cross Ref. No.	AWG	Type*	10	100
337720	43030-0007♻	20-24	1A	$.091	$.075
337738	43030-0009♻	20-24	1B	.108	.105
337762	43031-0007♻	20-24	2A	.103	.093

.165" (4.19mm) Mini-Fit Jr.™ Contacts



- Voltage: 600V
- Current: 9A (†12A current rating)
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 1000MΩ min.
- Material:
  - *A: Brass (pre-plated tin over copper)
  - *B: Brass or copper (post-plated tin over nickel)
  - *C: Phosphor bronze (pre-plated gold over nickel)

Female Contacts

✳ Minimum order 10 pieces

Part No.	Product No.	Desc.*	AWG	1	10	100
304733	39-00-0039	A	18-24	✳	$.077	$.071
304750	39-00-0182	c	18-24	.53	.451	.338
884248	44476-111♻	B	18-24	.24	.216	.194
304776	44476-1112♻†	B	18-24	.21	.163	.122
304872	39-00-0047	A	22-28	.20	.14	.096

Reel

880503	39-00-0046♻♠	A	22-28	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

KK® Series .156" (3.96mm) Pitch Crimp Terminal Housings & Locking Headers

- Voltage: 250VAC • Housing: nylon, UL94V-2
- Dielectric withstanding voltage: 1500VAC

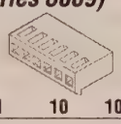
Housing With Locking Ramp (KK Series 2139)



- Current: brass – 5A max.; phosphor bronze – 7A max.;
- Contact resistance: 6mΩ max.
- Insulation resistance: 50kMΩ min.

Part No.	Product No.	Positions	1	10	100
463523	09-50-3121♻	12	$.82	$.69	$.52

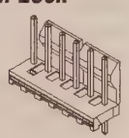
HousingWith Locking Ramp (KK Series 3069)



- Current: 7A • Wire-to-board
- Contact resistance: 20mΩ max.
- Insulation resistance: 500kMΩ min.

Part No.	Product No.	Positions	1	10	100
520057	09-91-0400	4	$.51	$.488	$.464

Solid Headers with Vertical Friction Lock (KK Series 41791)



- Contact resistance: 6mΩ max.
- Insulation resistance: 50k MΩ min.
- Housing: polyester, UL94V-0
- Contacts: brass • Current: 7A

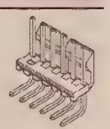
Tin ✳ Minimum order 5 pieces

Part No.	Product No.	Positions	1	5	100
879861	26-60-4020♻	2	$.21	$.162	$.145
879887	26-60-4030♻♠	3	✳	.242	.218
879908	26-60-4040♻♠	4	✳	.323	.291
879924	26-60-4050♻	5	.48	.401	.363
879941	26-60-4060♻	6	.57	.503	.377
879967	26-60-4070♻♠	7	.56	.476	.392
879983	26-60-4080♻♠	8	.64	.54	.44
880036	26-60-4100♻♠	10	.80	.70	.67
880052	26-60-4120♻	12	1.11	.96	.64

Overall Gold

880271	26-61-4030♻♠	3	$1.13	$.93	$.73
880343	26-61-4060♻♠	6	2.79	2.25	1.67

Solid Headers Right Angle Friction Lock (KK Series 41792)



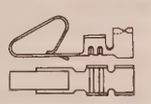
- **Minimum order 10 pieces**

Part No.	Product No.	Positions	10	100
880175	26-60-5060♻♠	6	$.133	$.125

Crimp Terminals

NEW

- Female • .110" max. wire insulation
- For 2139 & 3069 series (above)
- Plating: **A:** brass/tin **B:** phosphor bronze/tin **C:** brass/20µ" gold



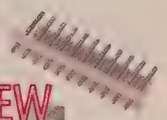
- **Minimum order 10 pieces**

Part No.	Product No.	Plating	AWG	10	100
736472	08-50-0105♻	A	18-20	$.14	$.13
736481	08-50-0106♻	A	18-20	.058	.049
736552	08-52-0071♻	B	18-20	.037	.033
736561	08-52-0072♻	B	18-20	.078	.062
736499	08-50-0108♻♠	A	22-26	.069	.059
736659	08-56-0106♻♠	C	18-20	.337	.307

New Lower Prices = Orange
Exceptional Quantity Discounts = Green

AMP MTA .156" Series

Straight Friction Lock Headers



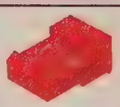
- Posts: copper alloy
- Housing: UL94V-0 rated thermoplastic, white
- **Minimum order 5 pieces**

NEW

Part No.	Product No.	Position	Plating	5	50
854170	640388-4 ♻♠	4	Tin	$.129	$.116
741870	1-640445-1 ♻♠	11	Tin	1.14	1.08

Housing

NEW



- Nylon, UL94V-2, red
- Contacts: copper alloy/tin • 22AWG
- **Minimum order 5 pieces**

Part No.	Product No.	Positions	5	50
854444	640428-3♠	3	$.137	$.123

AMP .156" Crimp Contacts


(High-Force)

- Voltage rating: 250VAC
- Current rating: 10A max.
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
  - *A: brass, 0.012" bright tin plated
  - *B: brass, 0.012" pre-tin plated
- For use with .156" AMP housings (see web)
- **Minimum order 10 pieces**

Part No.	Product No.	Desc.*	AWG	10	100	500
248866	640706-1	A	18-24	$.224	$.159	$.14
248874	640706-2♻	B	18-24	.187	.132	.127

.156" Center Housing Crimp Contact

JAMECO EXCLUSIVE



- Current rating: 10A AC/DC
- Volt. rating: 250V AC/DC
- 18-22 AWG
- Finish: tin-plated • Material: brass
- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 145-145)

Part No.	Description	1	10	100	1000
227416	Crimp contact⊕	$.32	$.29	$.26	$.22

.156" (3.96mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 143-145) may require multiple connectors

JAMECO EXCLUSIVE

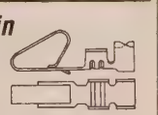
Quantity Save


104731

- Housing material: nylon 66, UL94V-2
- Use w/ crimp pins, 78319, below

Part No.	Cross Ref. No.	Pins	1	10	100	1000
104433	LCH3♻	3	$.23	$.207	$.165	$.124
104716	LCH4♻	4	.25	.22	.176	.132
104723	LCH5⊕	5	.23	.218	.196	.128
104731	LCH6⊕	6	.27	.242	.15	.136
104766	LCH10⊕	10	.60	.523	.329	.241

.156" (3.96mm) Center Crimp Pin



- Pin wire gauge: 18-24 AWG
- Material: brass/tin plated
- Use with .156 housings (above)
- **Prepackaged: please order in increments of 10**

Part No.	Cross Ref. No.	10	100	1000
78319	JS-5001-T ♻	$.11	$.08	$.07

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Hand Tools for Mini-Fit Jr.



304928: Crimp tool wire range from 14-24 AWG
304936: Extraction tool
308030: Cuts & strips 14-24 AWG wires
227491: Cuts & strips 18-30 AWG wires

Part No.	Product No.	1	5
304928	63811-1000	$48.05	$43.12
304936	11-03-0044	19.99	18.99
308030	W-HT-1919, 8.3"L (Red)	14.99	13.99
227491	W-HT-1921, 8.3"L (Yellow)	14.99	13.99

AMP Metrimate Pin and Socket Connector



- Housing: UL94V-0, thermoplastic red
- Voltage: 600VAC, 14A max.
- 0.197" center line • 9-pin male

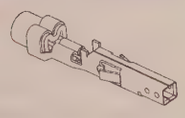
Part No.	Product No.	1	10	100
838778	207439-1 ♠	$1.39	$1.20	$1.09

.165" (4.19mm) Mini-Fit Jr.™ Equivalent Contacts

JAMECO ValuePro

JAMECO EXCLUSIVE


*Fig. 1 (Male)


*Fig. 2 (Female)

- Type*:
  - **A:** Tin over nickel over brass
  - **B:** 15µ" gold over nickel over brass
  - **C:** 30µ" gold over nickel over brass
  - **D:** Tin over nickel over phosphor bronze
  - **E:** 30µ" gold over nickel over phosphor bronze

Quantity Save

✳ Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	AWG	Type*	1	10	100
365747	39-00-0054	18-24	1C	$.58	$.428	$.31
401859	39-00-0076	18-24	1B	.35	.276	.208
365835	39-00-0168	16	2C	.44	.368	.276
401736	39-00-0170	18-24	2B	.32	.288	.216
365851	39-00-0182	18-24	2E	.46	.388	.291
365827	39-00-0186	16	2E	.46	.358	.269
401701	39-00-0208	18-24	2A	✳	.068	.057
401699	39-00-0210	22-28	2A	✳	.058	.042
401710	39-00-0212	16	2A	✳	.133	.10
401779	39-00-0218	16	2D	✳	.14	.105

.165" (4.19mm) Connectors – Molex Mini-Fit Jr.™ Value Equivalents

JAMECO ValuePro


Fig. 1

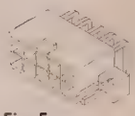

Fig. 2


Fig. 3

JAMECO EXCLUSIVE

Quantity Save


Fig. 4


Fig. 5

- Low profile design to accommodate height constraints
- UL rating: 94V-2
- Fully isolated terminals to protect contacts from damage
- Pitch: 0.165" (4.2mm)
- Positive locking housings
- Current: up to 9A
- Contact resistance: 10mΩ
- Voltage: 600V
- Temperature: -40°C to +150°C
- Housing: 6/6 Nylon Natural

Molex 5557 Series — Connector Equivalents

Receptacles, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364736	39-01-2020	1	2	$.34	$.30	$.225
364744	39-01-2040	1	4	.24	.212	.143
364752	39-01-2060	1	6	.41	.382	.249
364761	39-01-2080	1	8	.45	.39	.29
364779	39-01-2100	1	10	.42	.348	.262
364787	39-01-2120	1	12	.73	.65	.481
364795	39-01-2140	1	14	.72	.64	.432
364841	39-01-2240	1	24	1.08	1.04	.78

Molex 5559 Series — Connector Equivalents

Plugs - Panel Mount w/ Ears, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364867	39-01-2041	2	4	$.40	$.38	$.285

Molex 5566 Series PCB Header Equivalents

Vertical Dual Row w/o Pegs & Drain Holes – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
364963	39-28-1083	3	8	$1.28	$1.07	$.76
364971	39-28-1103	3	10	1.69	1.49	1.10
365042	39-28-1243	3	24	3.99	3.61	2.71

Vertical Dual Row w/o Pegs & Drain Holes – Gold

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365085	39-29-0103	3	8	$2.75	$2.34	$1.76

Molex 5569 Series PCB Header Equivalents

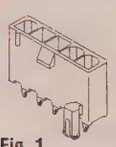
Right Angle Dual Row w/ Pegs – Tin

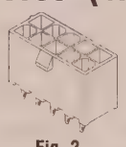
Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365173	39-30-1020	4	2	$.57	$.54	$.405
365181	39-30-1040	4	4	.66	.57	.422
365190	39-30-1060	4	6	.83	.63	.468
365202	39-30-1080	4	8	.88	.76	.51
365211	39-30-1100	4	10	1.05	.80	.54
365229	39-30-1120	4	12	1.43	1.10	.75
365288	39-30-1240	4	24	2.25	2.09	1.70

Right Angle Dual Row w/ Flanges – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365552	39-29-1248	5	24	$2.75	$2.34	$1.76

molex .165" (4.19mm) Mini-Fit Jr.™ Connectors


Fig. 1


Fig. 2

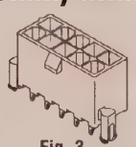

Fig. 3


Fig. 4

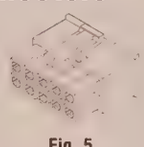

Fig. 5


Fig. 6

- Fully isolated terminals to protect contacts from damage
- Positive housing lock for secure mating retention
- Housing: 6/6 nylon natural, UL 94V-2 rated
- Use with strain relief or overmold applications
- Uses standard Mini-Fit series terminals
- UL/CSA/TUV approved

✳ Minimum order 10 pieces

Single and Double Row Headers

NEW

- Voltage: 600V
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

Vertical Headers with Pegs – Tin Plated

Part No.	Product No.	Fig.	Pos.	1	10	100
882437	39-30-2050	1	5	$.99	$.89	$.75

Vertical Header without Pegs (Dual Row) Tin Plated UL94V-0

Part No.	Product No.	Fig.	Pos.	1	10	100
881311	39-28-8020*	2	2	$.49	$.45	$.41

* Not for use with strain relief

Vertical Headers w/ Pegs Dual Row Tin Plated UL94V-2

Part No.	Product No.	Fig.	Pos.	1	10	100
881881	39-29-9083 ♠†	2	8	$.59	$.56	$.525
882091	39-29-9202 ♠††	2	20	2.05	1.80	1.20

† w/o drain holes †† w/ drain holes

Right Angle Headers Dual Row w/ Pegs Tin Plated (UL94V-0)

Part No.	Product No.	Fig.	Pos.	1	10	100
882189	39-30-0060 ♠	3	6	$1.65	$1.47	$.98

Single Row Receptacles

Part No.	Product No.	Fig.	Pos.	1	10	100
881231	39-01-4031 ♠	4	3	$.51	$.40	$.36
881291	39-01-4051 ♠	4	5	.61	.54	.38

Double Row Receptacles (UL94V-2)

Part No.	Product No.	Fig.	Pos.	1	10	100
303562	39-01-2020*	5	2	$.34	$.321	$.214
303571	39-01-2040*	5	4	.41	.366	.244
303589	39-01-2060	5	6	.319	.271	.203
303597	39-01-2080	5	8	.54	.459	.344

* Not for use with strain relief

Double Row Receptacles (UL94V-0)

Part No.	Product No.	Fig.	Pos.	1	10	100
881021	39-01-3028	5	2	$.33	$.317	$.277
881119	39-01-3048	5	4	.55	.446	.401
880790	39-01-2065 ♠	5	6	✳	.267	.251
880837	39-01-2085 ♠	5	8	.78	.69	.52
880870	39-01-2125 ♠	5	12	1.15	.89	.67

Double Row Plugs

Free Hanging Plugs

✳ Minimum order 5 pieces

Part No.	Product No.	Fig.	Pos.	1	10	100
881047	39-01-3029	6	2	$.28	$.26	$.23
881004	39-01-3023	6	2	.21	.159	.139

Panel Mount Plugs w/ Mounting Ears (UL94V-2)

Part No.	Product No.	Fig.	Pos.	1	10	100
303685	39-01-2021	6	2	$.32	$.264	$.193
303693	39-01-2041	6	4	.47	.40	.30

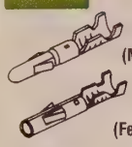
Panel Mount Plugs w/ Mounting Ears (UL94V-0)

Part No.	Product No.	Fig.	Pos.	1	5	100
880731	39-01-2026 ♠	6	2	✳	$.214	$.20
880773	39-01-2046 ♠	6	4	✳	.28	.262

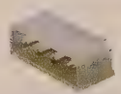
♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Power Connectors and Pins


42730 (Male for 42076)

42650 (Female for 42068)


109146


117568

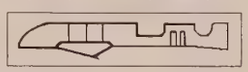

114931


115000


42076 (Male)


42068 (Female)

JAMECO EXCLUSIVE


114922

Connector & Housing Specifications:
- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:
- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, pg 188

For 5.25" Disk Drives and Power Supplies

42076 & 42068 Connector Housings:
- 0.200" pitch • Keyed mating connectors
- External key bar indicates pin 1
- See below for extraction tools, P/Ns 131887 & 131879
- **Prepackaged: please order in increments of 10**

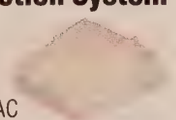
Part No.	Description	10	100	1000
109146	4-pin M vert. PCB mtg	$.68	$.61	$.55
117568	4-pin M PCB mntg, horiz. edge mnt	.85	.72	.65
42076	4-pin M housing	.12	.11	.10
42068	4-pin F housing	.20	.15	.13
42730	M crimp pin for 42076	.112	.078	.067
42650	F crimp pin for 42068	.10	.07	.06

For 3.5" Disk Drives and Power Supplies
- 0.100" pitch

Part No.	Description	10	100	1000
114931	4-pin F housing	$.189	$.151	$.113
114922	F crimp pin for 114931	.114	.098	.083

Part No.	Description	1	100	1000
115000	4-pin M rt. angle PCB mounting	$.35	$.31	$.28

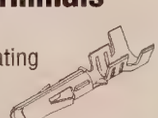
.200" (5.08mm) Pitch Disk Drive Power Connection System


NEW

- Voltage: 250VAC • Current: 10A
- Housing: nylon, UL94V-0
- Contact resistance: 25mΩ max.
- Dielectric w/ standing volt.: 250VAC
- Insulation resistance: 1000mΩ min.
- **Minimum order 10 pieces**

Part No.	Product No.	10	100
741394	02-08-1201	$.162	$.152

Disk Drive Power Connection System Crimp Terminals

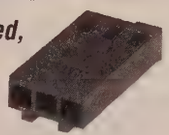

NEW

- Female • 14-20 AWG
- Contact: phosphor bronze w/ tin plating
- Wire insulation diameter: 0.08" to 0.108"
- **Minimum order 10 pieces**

Part No.	Product No.	10	100
734688	02-08-1201	$.118	$.108
734696	02-08-1202	.228	.149

AMPMODU™ .100" (2.54mm) Receptacles

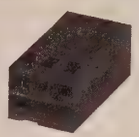
Single Row w/ Detents, Polarized, Crimp Snap-In (MOD IV)


496122

- Glass filled nylon, flame retardant

Part No.	Product No.	Pos.	Width (in.)	1	10
496122	102241-1	3	0.300	$.30	$.282
737281	102241-6	8	0.800	.43	.405
737299	102241-8 ♠	10	1.000	.76	.57

Double Row, Non-Polarized, Crimp Snap-In, Short Entry (MOD IV)


759691

- Glass filled nylon, flame retardant

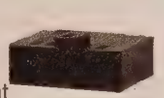
Part No.	Product No.	Pos.	Width (in.)	1	10
759691	87456-2 ♠	6	0.305	$1.27	$1.17
743015	1-87456-2 ♠	16	0.805	1.51	1.32

Double Row w/ Detents & Strain Relief, Polarized (MOD IV)
- Black thermoplastic, flame retardant

Part No.	Product No.	Pos.	Width (in.)	Price
987992	87922-4 ♠	16	0.800	★ Call/Web

★ Please call or visit our website for minimum order quantity & pricing

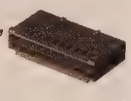
Double Row, Center Polarized, Crimp Snap-In (MOD IV)


496309

- Black thermoplastic, flame retardant

Part No.	Product No.	Pos.	Width (in.)	1	10
496309	102387-1	10	0.680	$1.26	$1.10

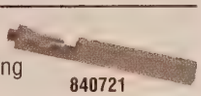
Double Row w/ Detents, Polarized, Crimp Snap-In (MOD IV)


841272

- Glass filled nylon, flame retardant

Part No.	Product No.	Pos.	Width (in.)	1	10
841272	87631-5 ♠	10	0.500	$1.43	$1.42

Keying Plugs


840721

840721: Plugs directly into housing
526926: Plugs into standard or intermediate pressure receptacle contacts

- **Minimum order 10 pieces**

Part No.	Product No.	10	100
840721	87077-2	$.129	$.092
526926	86286-1	.15	.14

Extraction Tools for Crimp Pins


131887

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5" • See left for crimp pins

131887: Male tool for 42730, above left
131879: Female tool for 42650, above left

Part No.	Product No.	1	10
131887	HT319C ⊕	$13.45	$12.25
131879	HT319B ⊕	13.99	11.50

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com

AMPMODU™ Pin & Receptacle Contacts


736835


527486

- Plating:
  A: gold flash over 50µ" nickel entire area, 30µ" gold on contact area;
  B: 15µ" gold in contact area, 100µ" ~ 200µ" bright tin lead, all over 50µ" nickel;
  C: preplated 50µ" ~ 150µ" bright tin;
- Material: **PB**=phosphor bronze; **BC**= beryllium copper

Pin w/ Insulation Support, Crimp Snap-In (MOD IV)

✳ Minimum order 10 pieces

Part No.	Product No.	Material	Plating	1	10
736835	102107-2	PB	A	$.38	$.364

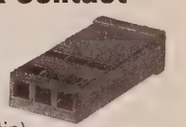
Standard Pressure Receptacle Contacts (MOD IV)

Part No.	Product No.	Material	Plating	1	10
527486	87523-6	PB	C	$.21	$.16
527419	1-87523-6	PB	B	.25	.24
742223	166722-1 ♠	PB	A	✳	.157
527507	87667-2	BC	A	.36	.324

Receptacle, Crimp Snap-In (MOD IV 1/2)

Part No.	Product No.	Material	Plating	1	10
840675	87046-3 ♠	BC	A	✳	$.382

AMPMODU™ Locking Clip Housings & Contact

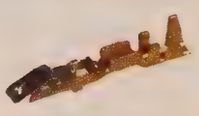

840819

- Mates with 0.025" (0.64mm) square posts
- Contact current: 3A
- Termination resistance: 12mΩ max. (gold); 16mΩ max. (tin)
- Design permits end-to-end stacking
- 94V-0 rated glass-filled polyester housing

Single Row

Part No.	Product No.	Positions	1	10	100
840819	87175-8 ♠	3	$1.13	$1.03	$.76
742961	1-87175-0 ♠	4	1.14	.99	.78
742979	1-87175-2	5	1.00	.93	.87

Locking Clip Contact



- Plating: 30µ" gold in contact area, gold flash on remainder, over 50µ" nickel

Part No.	Product No.	AWG	1	10	100
840755	87165-1	26-22	$.42	$.39	$.36

.100" Low-Profile Male Shrouded Headers

Straight Male Headers


68179

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, pg 104

JAMECO EXCLUSIVE

Part No.	Description	1	10	100	1000
67812	10-pin	$.45	$.399	$.365	$.319
68179	16-pin ⊕	.44	.40	.35	.32
68292	20-pin	.55	.505	.419	.314
68372	26-pin	.59	.437	.364	.219
68582	34-pin ⊕	.95	.78	.56	.372
181105	40-pin	1.49	1.17	.88	.61

♠ This product typically requires one additional day to ship. Please request *'ship partial'* if you prefer the other products on your order to ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

.100" Low Profile Keyed Shrouded Headers & Connectors

CD-ROM 4-Pin Headers and Connectors



- Pin material: tin-plated brass
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Volt. rating: 250VAC/DC • Current rating: 3A AC/DC
- Header material: PBT + 30% glass
- Withstanding voltage: 1000VAC/ 1 minute
- Recommend crimp tool P/N 99443, pg 188

JAMECO EXCLUSIVE

✳ Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
152741	Straight header ⊕	$.45	$.39	$.35	$.29
152726	Rt. angle header ♻	.55	.50	.40	.30
152734	Single w/ latch ♻ †	.43	.387	.309	.232
181673	Female pins ⊕ ✳		.11	.08	.06

† P/N 152734 requires 4 pins (P/N 181673)

.100" (2.5mm) Straight Male Headers

With Standard Latch

Double Row

JAMECO EXCLUSIVE



- 0.1" contact center
- Mount vertical • Keying slot
- Use with IDC socket connectors, pg 104



Part No.	Description	1	10	100	500
117664	10-pin ♻	$1.55	$1.38	$1.18	$.73
71830	20-pin ♻	1.65	1.42	1.28	1.14
71933	26-pin ⊕	1.49	1.34	1.07	.89
72216	50-pin ♻	1.89	1.70	1.54	1.39

Great Prices on Special Buys✳

687720	14-pin	$1.31	$1.17	$1.03	$.94
1928169	16-pin	1.49	1.29	1.15	.99
1928177	34-pin	1.59	1.39	1.25	1.09
1928185	34-pin (right angle)	1.59	1.39	1.25	1.09

✳Manufacturer may vary

.100" (2.54mm) Female Header Receptacles

- Gold plated contacts
- 0.1" contact center



✪ Blue Part No. = Limited Quantity Available

JAMECO EXCLUSIVE

Right Angle Mount (Side Entry)

Part No.	Contacts	Type	1	10	100	500
71159	20 ⊕ ✪	Double row	$1.79	$1.59	$1.43	$1.23

Vertical Mount (Top Entry)



Part No.	Contacts	Type	1	10	100	500
70755	8 ♻	Single row	$.63	$.56	$.462	$.371
200782	12 ⊕ ✪	Single row	.93	.82	.449	.394
308592	16 ♻	Single row	.67	.55	.36	.28
308567	20 ♻	Single row	.69	.57	.37	.289
70720	16 ⊕	Double row	.89	.79	.72	.65
70827	20 ♻	Double row	1.19	1.07	.86	.64
105057	30 ♻	Double row	1.09	.98	.88	.74
111705	40 ♻	Double (Tin)	1.42	1.27	1.09	.98

Great Prices on Special Buys✳

163862	34	Double row	$1.05	$.94	$.85	$.71

✳Manufacturer may vary

AMP AMPMODU™ .100" (2.54mm) Standard Profile Shrouded Headers

- Operating temp.: -65°C to 105°C • Insulation resis.: 5,000MΩ min. initial
- Current rating: 3A max. per contact • Housing: UL94V-0, black thermoplastic
- Dielectric withstanding voltage: 750V @ sea level
- 0.100" (2.54mm) centers w/ 0.025" square posts, copper alloy



Contact Plating:

A: Duplex plated, 0.000030 min. gold on contact area, 0.0001~0.0002 min. tin/lead on solder area, w/ entire post underplated 0.000050 min. nickel;
B: Duplex plated, 0.000015 min. gold on contact area,0.0001~0.0002 min. tin/lead on solder area, w/ entire post underpated 0.000050 min. nickel
C: Selectively plated .000015 gold on contact area, with gold flash over .000050 nickel on entire post



Straight w/ Stand-Offs, Single Row (MOD II) – Fig. 1

Part No.	Product No.	Positions	Plating	1	10
841117	3-102202-4♠	3	B	$1.41	$1.22
737897	103414-2♠	4	A	1.59	1.36
737176	102202-1♠	4	B	1.46	1.18
737184	102202-2♠	5	B	2.05	1.79
737213	102202-7♠	10	B	2.95	2.49

Straight w/ Detent Windows, 0.066" End Dim., Double Row (MOD II) – Fig. 2

737635	103168-2♠	8	A	★	Call
737416	102618-2♠	8	B	1.89	1.65
737424	102618-3♠	10	B	2.05	1.79
737459	102618-6♠	16	B	2.75	2.45
737475	102618-8♠	20	B	3.85	3.48

★ Please call or visit our website for minimum order quantity & pricing

Right Angle w/ Stand-Offs, Single Row (MOD II) – Fig. 3

Part No.	Product No.	Positions	Plating	1	10
841141	3-102203-4♠	3	B	$1.46	$1.27
737230	102203-2♠	5	B	2.35	2.01

Right Angle w/ Detent Window, 0.066" End Dim., Double Row (MOD II) – Fig. 4

737563	103166-1♠	6	A	$1.34	$1.15
737395	102617-8♠	20	B	3.45	2.93

Straight, Un-Shrouded Double Row (MOD II)

742995	1-87227-0 ♻ ♠	20	C	$5.19	$4.11

Straight, Breakaway, 15µ" Gold Single Row (MOD II)

✳ Minimum order 10 pieces

753125	5-146280 ♻ ♠	2	B	✳	$.215

AMP Latch DIP Plugs .100" x .100" Center

NEW



- 94V-0 rated thermoplastic black
- Contacts designed for use with 28AWG stranded wire or 30-26AWG solid wire
- Contacts: phospor bronze, 100µ"- 200µ" bright tin-lead

Part No.	Product No.	Positions	1	10	100
863156	746610-4	20	$1.59	$1.40	$1.27
863236	746610-9	40	2.69	2.36	2.14

AMP AMPMODU™ System 50 Connector



NEW

- Housing: thermoplastic black, UL94V-0
- Contacts: copper alloy/ 30µ" gold in mating area, 150µ" tin-lead on solder posts
- 50 positions • Post length: 0.100"

Part No.	Product No.	1	10
738734	104069-2♠	$10.29	$8.75

PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.



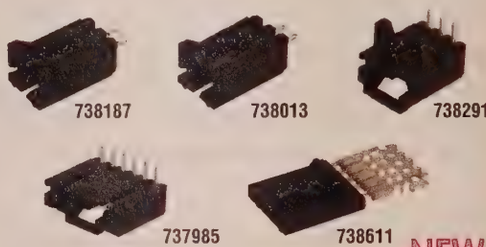
Part No.	Prod. No.	Description	Wt.(lbs.)	1	10
27174	M505 ⊕	Bench press	7.0	$179.95	$159.95

M505 Accessories

27182	M507	Cable cutter	0.9	$66.95	$61.95
27203	M510	Base plate	0.5	29.75	27.95

AMP MTE Interconnection System

- Housing: thermoplastic UL94V-0, black
- Posts: copper alloy • 0.100" centers
- Plating: Duplex plated 15µ" gold on contact area, 100µ" min. tin-lead on solder area



NEW

Straight Polarized Latching w/ Swage

Part No.	Product No.	Positions	1	10
738187	103670-1♠	2	$.59	$.47
738195	103670-2♠	3	.50	.40
738208	103670-3♠	4	.75	.60

Straight Polarized Latching w/o Swage

738013	103638-1♠	2	$.58	$.47

Right Angle Latching w/ Hold Down

738291	103673-2♠	3	$.51	$.47
738304	103673-3♠	4	.65	.58

Right Angle Latching w/o Hold Down

737985	103635-5♠	6	$.58	$.49

Polarized Latching Single Row Receptacles

- Contacts: phosphor bronze
- Plating: 15µ" gold on contact area, 50µ" min. tin-lead on crimp area • 26-22AWG

Part No.	Product No.	Positions	1	10
738611	103957-4♠	5	$.85	$.73

Our enhanced website offers thousands of additional products. Find products quickly and order them easily.

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP .100" AMPLATCH™ IDC Ribbon Connectors

NOVO Receptacles

- 0.100" x 0.100" (2.54mm) grid center
- Preassembled housing with cover
- Accepts 28-26AWG solid or stranded cables
- Insulation displacement contacts for fast, economical mass terminations
- Contact current rating: 1A continuous
- Dielectric withstanding voltage: 1000V (receptacles); 500V (pin connectors)
- Housing, cover: 94V-0 rated thermoplastic, black • 0.100" grid pitch
- Contacts: phosphor bronze, duplex plating

Contact Plating:

A: 30µ" gold on localized gold plate area, 50µ" min. tin on termination end;
B: 15µ" gold on localized gold plate area, 100µ"~200µ" tin on termination end;
C: 15µ" gold on localized gold plate area, 100µ"~200µ" tin lead termination end, all over 50µ" min. nickel on entire area;
D: 30µ" gold on localized gold plate area, 100µ"~200µ" bright tin lead on termination end, all over 50µ" nickel on entire contact area
E: 15µ" gold on localized gold plate area, 50µ" min. tin on termination end, all over 50µ" nickel on entire contact area


525317


525376

Center and Military Polarized

Part No.	Product No.	Pos.	Plating	1	10	100
901642	1658622-1	10	A	$1.55	$.96	$.87
525309	746285-1	10	C	1.29	1.19	1.09
742215	1658621-1	10	B	1.09	.91	.76
901685	1658622-2 ♠	14	A	1.79	1.64	1.09
525317	746285-2	14	C	1.69	1.47	1.36
901407	1658621-2	14	B	1.85	1.56	1.34
525325	746285-3	16	C	1.59	1.50	1.46
901722	1658622-3 ♠	16	A	2.39	1.55	1.14
525333	746285-4	20	C	1.20	1.15	1.11
901482	1658621-4	20	B	1.75	1.49	1.12
525413	746288-6	26	D	1.59	1.46	1.31
901520	1658621-6 ♠	26	E	2.85	1.79	1.35
901802	1658622-6 ♠	26	A	1.65	1.33	1.25
525341	746285-6	26	C	1.46	1.39	1.35
525350	746285-8	34	C	1.99	1.63	1.47
525368	746285-9	40	C	1.79	1.75	1.73
901600	1658621-9 ♠	40	B	3.95	1.90	1.66
525376	1-746288-0	50	D	2.59	2.37	2.18
888353	1-1658621-0 ♠	50	B	4.85	2.31	2.02

Military Polarized

Part No.	Product No.	Pos.	Plating	1	10	100
901845	1658623-1	10	A	$1.15	$.80	$.76
901263	1658620-1	10	E	1.24	.75	.66

Strain Relief for NOVO Receptacles

Part No.	Product No.	Positions	Minimum order 5 pieces: 5	100
848984	499252-1 ♠	40	$.189	$.17

Keying Plug for NOVO Receptacles

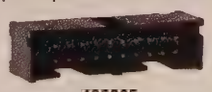
- Thermoplastic, UL94V-0, black

Part No.	Product No.	Minimum order 5 pieces: 5	100
849178	499712-1 ♠	$.129	$.116

AMP .100" AMPLATCH™ Ribbon Cable Connectors

Low-Profile Shrouded Headers w/ 0.150" End Dimension, Dual Row, 0.100" Centers

- 0.120" solder tail • 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contact: phosphor bronze
- Plating:
  A: 30µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;
  B: 30µ" gold on mating area, 100µ" min. tin on solder end, all over 50µ" nickel;
  C: 15µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;
  D: 15µ" min. gold on mating area, 100µ" min. tin on solder end, all over 50µ" on entire post
  E: copper alloy, duplex plated, 30µ" gold on contact area, 100µ" tin lead on solder area


496085

Straight (no latch)

Part No.	Product No.	Pos.	Plating	1	10	100
496051	103309-1	10	A	$.67	$.65	$.56
850216	5103308-1 ♠	10	D	.78	.74	.68
737715	103309-2	14	A	.93	.84	.83
753571	5103309-2	14	B	.87	.78	.76
850241	5103308-2 ♠	14	D	1.49	1.38	1.31
753521	5103308-3 ♠	16	D	1.15	1.02	.92
496093	103309-5	20	A	1.49	1.36	1.18
496085	103308-5	20	C	1.30	1.25	1.12
753539	5103308-5 ♠	20	D	1.75	1.56	1.47
496296	103308-6	26	C	1.49	1.39	1.35
850275	5103308-6	26	D	1.47	1.17	1.05
737723	103309-7	34	A	2.05	1.82	1.59
753547	5103308-7 ♠	34	D	1.89	1.53	1.37
737731	103309-8 ♠	40	A	2.35	2.19	2.07
739825	1-103309-0	50	A	2.89	2.75	2.61
739817	1-103308-0	50	C	1.99	1.79	1.53

Right Angle (no latch)

Part No.	Product No.	Pos.	Plating	1	10	100
753619	5103310-1 ♠	10	D	$.62	$.59	$.56
753635	5103311-1 ♠	10	B	.71	.69	.68
737740	103310-2	14	C	.93	.82	.78
737758	103310-3	16	C	.76	.72	.68
737811	103311-3 ♠	16	A	1.07	.96	.91
737766	103310-5	20	C	1.25	1.19	1.13
737774	103310-6	26	C	1.95	1.56	1.17
739833	1-103310-0	50	C	3.19	2.71	2.03

Straight (with long latch)

Part No.	Product No.	Pos.	Plating	1	10	100
738822	104128-3	16	E	$3.49	$3.04	$2.76
738831	104128-4 ♠	20	E	3.79	3.31	3.01
738988	104313-4 ♠	20	E	2.69	2.59	2.49

Universal Ejection Style Pin Header Assembly (Military, Center & Dual Polarized)

NEW


848950

- 0.100" centers
- 0.110" post length
- Plating:
  A: 30µ" gold, 100µ" tin-lead on solder tail
  B: 15µ" gold, 100µ" tin lead on solder tail
- Housing: glass filled nylon or polyester
- 848950/737096: Phosphor bronze; 736974: Brass

Part No.	Product No.	Pos.	Plating	1	10	100
848950	499206-1 ♠	10	A	$1.49	$1.30	$1.18
736974	102154-6 ♠	26	A	2.99	2.38	2.13
737096	102159-8 ♠	34	B	2.45	2.22	2.11

Jameco ValuePro .100" Non-Polarized Connector Housings & Crimp Pins


103191


103254


100766


145358

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 96)
- Current rating: 1A
- Housing material: plastic
- Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use 159266 pin crimper, pg 188 and 100766 crimp pin, below

Quantity Save

Single Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
100812	SCH2	2	$.26	$.23	$.21	$.17
157383	SCH3	3	.27	.24	.22	.18
100803	SCH4	4	.31	.28	.26	.21
163686	SCH5 ⊕	5	.36	.324	.30	.264
103211	SCH6 ⊕	6	.45	.40	.38	.28
103203	SCH8	8	.39	.35	.281	.21
103191	SCH10	10	.42	.39	.36	.31
103182	SCH20	20	.59	.53	.425	.318

Double Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
103254	DCH8	8	$.59	$.53	$.43	$.32
157421	DCH10	10	.69	.62	.55	.49
157438	DCH14 ⊕	14	.73	.71	.69	.52
103238	DCH16	16	.87	.78	.63	.47
103230	DCH20	20	.99	.89	.72	.54
157462	DCH40 ⊕	40	1.09	.99	.79	.59
157472	DCH50	50	.65	.59	.47	.35

Crimp Pins for Single/Double Row Housings

- Prepackaged: please order in increments of 10

Part No.	Cross Ref.	Contacts	10	100	1000
100766	FCH1	Female pin	$.154	$.121	$.077
145358	MCH1	Male pin	.15	.135	.12

3M IDC Wiremount Socket Connectors 891 Series

0.100" x 0.100" for 0.050" Pitch Cables


1578111

- Bumps prevent premature latch locking
- Double recessed cover for cable terminating from either side eliminates need for single recessed cover connectors
- Contact: phosphor bronze
- Plating: 100µ" nickel underplating; 30µ" gold wiping area
- Insulation material: glass filled polyester (PBT), gray, UL94V-0 • Current rating: 1A
- With center bump, pre-assembled w/o strain relief
- Accepts 26-28AWG solid or stranded wire
- Insulation resistance: 1MΩ @ 500VDC
- Withstanding voltage: 1000V_{RMS}

Part No.	Product No.	Pos.	1	10	50
1578082	89110-0101	10	$.63	$.57	$.54
1578091	89114-0101	14	.75	.62	.58
1578111	89116-0101	16	.77	.64	.59
1578146	89120-0101	20	.74	.67	.62
1578171	89126-0101	26	.84	.77	.71
1578197	89134-0101	34	.94	.86	.80
1578218	89140-0101	40	1.26	1.14	1.07

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

.100" & 2mm IDC Socket Connectors

JAMECO EXCLUSIVE

Double Row


32564

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 96)
- Contact material: phosphor bronze w/ 1µ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C
- Use crimper P/N 73252, pg 104

Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
32492	S10	10	$.29	$.25	$.19	$.15
119467	S16	16	.37	.31	.23	.18
32522	S20	20	.49	.407	.299	.225
32564	S26	26	.49	.358	.297	.195
32644	S34	34	.53	.42	.38	.27
32679	S40	40	.68	.61	.49	.368
32708	S50	50	.74	.65	.449	.337
32759	S60	60	.90	.82	.74	.60

Non-Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
138376	SN10⊕	10	$.39	$.34	$.31	$.28
138325	SN20⊕	20	.49	.434	.299	.225
138333	SN26⊕	26	.87	.66	.51	.40
138341	SN34⊕	34	.45	.40	.35	.28
138350	SN40⊕	40	.49	.45	.39	.29
138368	SN50⊕	50	.79	.70	.54	.40

3M Four-Wall Headers

- Insulator material: glass filled polyester, black high-temperature, UL94V-0
- Contact material: copper alloy
- Plating: 100µ" nickel underplating; 30µ" gold wiping are with 200µ" matte tin solder tails
- Insulation resistance: 1MΩ @ 500VDC

2500 Series
0.100" x 0.100" Low Profile


1578605

- Current rating: 2A
- Withstanding volt.: 1000V_{RMS}
- For 0.0621" (1.57mm) board thickness
- Center polarization prevents misinsertion

Part No.	Product No.	Pos.	1	10	50
1578533	N2510-5002RB♠	10	$1.49	$1.36	$1.28
1578541	N2510-6002RB♠	10	1.33	1.22	1.14
1578584	N2514-6002RB	14	1.39	1.26	1.19
1578605	N2516-6002RB♠	16	1.55	1.41	1.32
1578621	N2520-6002RB	20	1.59	1.45	1.37
1578672	N2526-6002RB♠	26	1.69	1.55	1.50
1578710	N2534-6002RB♠	34	2.09	1.87	1.79
1578736	N2540-6002RB♠	40	2.69	2.50	2.35
1578761	N2550-6002RB♠	50	2.79	2.51	2.34

3000 Series .100" x .100" Latch/Ejector


Right Angle


Straight

- Mounting holes for securing header to board
- Current rating: 1A

Short pin latch/ejector (right angle)

Part No.	Product No.	Pos.	1	10	50
1578947	N3429-5202RB♠	26	$3.19	$3.05	$2.92

Long pin latch/ejector (straight)

Part No.	Product No.	Pos.	1	10	100
1579190	N3793-6302RB♠	10	$1.35	$1.26	$1.20

3M IDC Wiremount Socket Connectors 3000 Series

0.100" x 0.100" for 0.050" Pitch Cables


1576394

- Insulation: glass filled polyester (PBT), gray, UL94V-0
- 100µ" nickel underplating & U-slot; 30µ" gold wiping area
- Copper alloy contacts
- Current rating: 1A
- Withstanding voltage: 1000V_{RMS}
- Insulation resistance: 1MΩ @ 500VDC
- Accepts 26-28AWG solid or stranded wires
- Open end, center bump, military
- **1576466/1576941/1576933**: open end & military (dual slot)
- **1576984**: closed end, center bump, military

With Strain Relief

Part No.	Product No.	Positions	1	10	50
1576941	3473-6010♠	10	$2.19	$1.99	$1.93
1576968	3473-6610♠	10	2.59	2.42	2.38
1576984	3473-7610♠	10	2.09	1.92	1.79
1576407	3421-6620♠	20	3.69	3.42	3.37
1576191	3399-6626♠	26	4.29	3.90	3.50
1576263	3414-6634♠	34	5.99	5.09	4.68
1576335	3417-6640♠	40	7.05	5.95	5.39
1576466	3425-6050♠	50	8.39	8.02	6.78
1576482	3425-6650♠	50	8.39	8.04	7.68

Without Strain Relief

Part No.	Product No.	Positions	1	10	50
1576933	3473-6000♠	10	$1.95	$1.84	$1.81
1576950	3473-6600♠	10	1.79	1.72	1.66
1576132	3385-6600♠	14	2.15	2.07	2.00
1576861	3452-6600♠	16	2.35	2.27	2.19
1576394	3421-6600♠	20	2.59	2.49	2.44
1576183	3399-6600♠	26	3.35	3.29	3.25
1576255	3414-6600♠	34	4.35	4.21	4.07
1576327	3417-6600♠	40	5.15	4.80	4.77
1576474	3425-6600♠	50	6.39	5.99	5.96
1577864	7964-6500EC♠	64	9.05	8.22	7.65

3M IDC Socket Accessories


1576765


1577080


1577151

Strain Relief for Wiremount & D-Sub Sockets

Minimum order 5 pieces

Part No.	Product No.	Pos./Description	5	100
1576597	3448-3010♠	10/plastic SR	$.29	$.209
1576714	3448-89110♠	10/SR	.178	.168
1576765	3448-89126	26/SR	.178	.168
1576802	3448-8D09A♠	9/SR for D-Sub	.25	.209
1576829	3448-8D25A♠	25/SR for D-Sub	.299	.279

Ejector/Latch for Wiremount & Shrouded Pinless Headers

Minimum order 5 pieces

Part No.	Product No.	Description	5	100
1577080	3505-17♠	Ejector/latch for wiremount sockets	$.178	$.168
1577098	3505-2♠	Short pin ejector/latch for shrouded headers	.102	.095
1577119	3505-3♠	Long pin ejector/latch for shrouded headers	.102	.094

Keying Plug & Retainer Clip

✳ Minimum order 10 pieces

Part No.	Product No.	Description	1	10
1576554	3435-0	Keying plug for wiremount sockets	✳	$.079
1577151	3505-34♠	CF card retainer clip	1.69	1.49

3M Compact Flash Card Header

CF Type 1, Surface Mount



- Current rating: 5A
- Material: liquid crystal polyester (LCP), UL94V-0, beige
- Contact material: copper alloy
- Contact plating: 100µ" nickel under plating, gold flash over 80/20 palladium nickel, 50µ" 85/15 tin/lead solder tails • Withstanding volt.: 500V_{RMS}
- Insulation resistance: >1 x 10^9Ω @ 500VDC

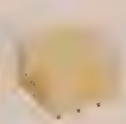
Part No.	Product No.	1	10	50
1644781	N7E50-7516PG-20♠	$8.19	$6.34	$5.17

AMP Universal MATE-N-LOK™ Connectors

- Positive polarization • Positive locking housings
- Dual locking lances provide optimum contact stability
- Contacts are on 0.250" centerline spacing
- Dielectric w/standing voltage: 5KVAC or 10KVDC between adjacent circuits
- Insulation resistance: 1000MΩ minimum initial between adjacent circuits
- Voltage rating: 600VAC or DC
- Durability: 50 cycles mating and unmating
- PCB socket headers – UL94V-2 rated nylon, natural; PCB pin headers – UL94V-0 rated nylon

NEW


846268


846381


857178


741757

In-line Vertical PCB Socket Header (phosphor bronze/pre-tin)

✳ Minimum order 10 pcs.

Part No.	Description	Position	1	10
846268	350759-4♠	2	✳	$.39
846292	350760-4♠	3	.55	.50

Vertical PCB Socket Headers (phosphor bronze/pre-tin)

Part No.	Description	Position	1	10
846381	350763-4♠	9 (3 x 3 grid)	$.83	$.78

In-Line PCB Vertical Pin Header (phosphor bronze/pre-tin)

Part No.	Description	Position	1	10
857178	641966-1♠	3	$1.11	$1.01

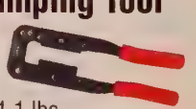
Keying Plug

- Material: nylon UL94V-2, natural

✳ Minimum order 10 pieces

Part No.	Description	1	10
741757	1-640415-1♠	✳	$.313

IDC Connector Crimping Tool



- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
73252	HT214	$15.95	$14.39	$12.95

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Terminals are available online at www.Jameco.com/Interconnect

AMP Universal MATE-N-LOK™ Crimp Terminals


847009

- Solid pin diameter: 0.084"
- Used with universal mate-n-lock connectors
- Material: **A**–phosphor bronze/pre-tin; **B**–brass/pre-tin
- **Minimum order 10 pieces**

Part No.	Product No.	Type	AWG	Material	10	100
847009	350922-3 ♻	Pin	12-10	A	$.135	$.122
838962	770250-1 ♻ ♠	Pin	20-14	B	.151	.14
845652	350536-3 ♻	Socket	20-14	A	.079	.071
845687	350537-1 ♻	Socket	20-14	B	.049	.046
846882	350851-1 ♻ ♠	Socket	24-18	B	★	Call
845839	350561-1 ♻ ♠	Pin	24-18	B	★	Call

★ Please call or visit our website for minimum order quantity & pricing

AMP Eurocard Connectors


859481 851471 851500

- DIN level II
- Current rating: 1.5A
- Meets DIN 41612 and IEC603-2
- Contacts: phosphor bronze, 30µ" gold on mating area, tin lead on tails; 859481: contacts and board locks is brass
- Housing: glass filled polyester, gray, 94V-0 rate
- Positions: 96; 859481: 64
- Contact resistance: 20mΩ
- Type C

NEW

Part No.	Product No.	Description	1	10
859481	650945-5 ♠	Right angle pin assem... w/ 0.104"L solder posts	$2.65	$2.21
851471	535032-4 ♠	Vertical receptacle ..... w/ action pin post	3.69	2.94
851500	535043-4 ♠	Vertical receptacle ..... w/ 0.180"L solder posts	4.99	3.73
851606	535089-5 ♠	Vertical receptacle ..... w/ 0.098"L solder posts	3.95	3.46

AMP Mini-Rectanglular Connector



- Header pin assembly
- Housing: 94V-0 rated nylon brick red
- For use with 0.063" thick PCB
- Mates with 1-640519-0 socket assembly
- Contacts: phosphor bronze, 30µ" gold over contact length, 150µ" matte tin lead on solder tail

NEW

Part No.	Product No.	No. of Circuits	1	10	100
855201	640499-2 ♠	4	$4.15	$3.64	$3.30

AMP Mini Universal MATE-N-LOK™ II Connectors and Terminals

- Three-point stabilization to provide consistent terminal position
- Voltage rating: 600VAC or DC
- Insulation resistance: 100MΩ between adjacent circuits
- Fully polarized to provide proper plug to cap mating
- Mates w/ standard mini universal MATE-N-LOK headers & connectors
- Resistance: 20mΩ max total resistance between wire crimps or a mated pin and socket
- Dielectric w/ standing volt.: 1500VAC or DC between adjacent circuits
- Durability: 25 cycles mating and unmating

NEW


746451


839084


839375


742240

In-Line Vertical PCB Pin Headers w/ Drain Holes

Part No.	Description	Pos.	Contact/Plating	1	10
746451	1-770166-1 ♻ ♠	2	Brass/30µ" gold	$.80	$.76
838794	770166-1 ♠	2	Brass/tin-lead	.69	.60

Free Hanging Dual Row Plugs

- UL94V-0 rated nylon, white

Part No.	Description	Pos.	1	10
839084	770579-1 ♻ ♠	8 (2x4 grid)	$.50	$.47
839148	770581-1 ♻ ♠	12 (2x6 grid)	.73	.66

Right Angle PCB Headers w/ Board Locks

- Housing: UL04V-0 rated nylon, white
- 839551: dual row

Part No.	Description	Pos.	Contact/Plating	1	10
839375	770966-1 ♠	2	Brass/tin-lead	$.86	$.82
839412	770966-2 ♠	3	Brass/30µ" gold	2.25	1.95
839551	770970-2 ♠	8	Brass/30µ" gold	6.75	5.88

Terminal

- Brass-pre-tin
- 0.163" center line
- 600V, 9.5 max

Part No.	Product No.	AWG	Type	Price
742240	170362-1 ♻ ♠	22-18	Socket	★ Call

★ Please call or visit our website for minimum order quantity & pricing

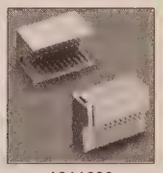
ERNI 2mm Hard Metric Connectors

- Insulation res.: 104MΩ
- Contact resistance: 20MΩ
- Operating temperature range: -55°C to 125°C
- Contact material: phophor bronze, gold plated


1813628


1814102


1811104

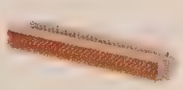

1811032

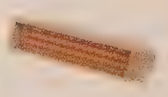
Part No.	Product No.	Type	Description	No. of Positions	Connector on PCD	Pricing 1	10	100
1813628	104112 ♻	A	Vertical **F** w/ shield, w/o peg version 6	110	—	$10.35	$9.29	$8.37
1811294	064176 ♻ ♠	—	CompactPCI® **F** w/ shield, w/o peg for daughter cards	25	J1, J4	5.75	5.19	4.67
1835341	923190 ♻	A	CompactPCI® **M** w/ peg for backplanes	25	P1	5.15	4.65	4.19
1811286	064097 ♻	A	CompactPCI® vertical **M** w/ peg for backplanes	154	P1	5.99	5.25	4.37
1814102	114538 ♻	AB	Right angle **F** w/o shield, w/o peg for daughter cards	125	—	10.19	9.16	8.25
1814727	134075 ♻	AB	CompactPCI® **F** w/ shield, w/o peg	95	rJ3	10.19	9.16	8.25
1811104	044767 ♻ ♠	B	Right angle **F** w/o shield/ w/o peg for daughter card	125	—	6.69	6.01	5.41
1811121	053008 ♻	B	Vertical **M** for backplanes	175	—	8.09	7.27	6.55
1834146	914793 ♻	B	CompactPCI® vertical **M** w/ extended terminals for backplane	133	P3	8.05	7.25	6.53
1834154	914794 ♻	B	CompactPCI® rt. angle **F** w/o shield, w/o peg for daughter cards	95	J3	6.19	5.57	5.01
1811374	064784 ♻	B	Female w/ upper shield for daughter cards	19	J3	5.15	4.63	4.17
1813943	114112 ♻	B	Vertical **F** w/ shield, w/o peg version 6	95	—	23.89	21.51	19.36
1811382	064785 ♻	B	CompactPCI® **F** w/ upper shield for daughter cards	22	J2, J5	6.69	6.03	5.43
1834162	914796 ♻	B	CompactPCI® **M** wide	154	P2, P5	5.15	4.63	4.17
1811032	044145 ♻ ♠	C	Right angle **F** w/o shield, w/o peg for daughter cards	55	—	3.15	2.81	2.54
1836264	973028 ♻	—	Ermet ZD right angle **F**, 3-pair, pressfit, 1.8mm term length	90	—	14.85	13.37	12.04
1836272	973031 ♻	—	Advanced TCA backplane connector module, 4-pair, 25mm L, pressfit, 3.7mm term length	120	—	14.55	13.07	11.76

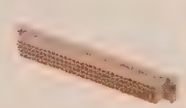
ERNI DIN 41612 / 60603-2 Connectors

- Pin diameter: 0.6mm x 0.6mm
- Current rating: 1.6A @ 70°C
- Contact resistance: 20mΩ
- Housing: PBT; UL94V-0
- Operating temperature range: -55°C to 125°C
- Dielectric strength: 1000V_{RMS} contact-contact; 1550V_{RMS} contact-ground
- Insulation resistance: 10^4MΩ
- Termination area: copper alloy, tin
- Contact and mating area: copper alloy, gold plated

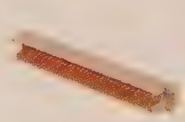
NEW


1821038


1819085


1810654


1810283


1818525


1810321

Part No.	Product No.	Type	Description	Pins	Termination	Terminal Length	Pricing 1	10	100
1834091	913135 ♻	C	Vertical **F** w/ transfer zone (2.5mm pressfit zone)	96	Pressfit	17	$7.29	$6.58	$5.93
1834082	913110	C	Vertical **F**	96	Pressfit	5.5	3.05	2.76	2.48
1821038	533402 ♠	C	Right angle **M**	96	Solder	3	1.95	1.73	1.56
1819085	413865	C/2	Right angle **M**	48	Solder	3	2.39	2.16	1.95
1810654	023762	CD	Vertical **F**	128	Solder	3.7	11.49	10.33	9.30
1810283	004778	E160	Right angle **M**	160	Solder	3	15.79	14.24	12.82
1818525	334415	R	Male straight	96	Solder	4	2.75	2.47	2.23
1810689	024070 ♻	E	Female housing size E160-160	160	—	—	11.49	10.39	9.30
1810321	013161	TE	Male straight (2.5mm pressfit zone)	160	Pressfit	6	11.49	10.33	9.30

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP Card Edge Connector Standard Edge II

0.100" Centers, Vertical, w/o Mounting Ears



- 0.025" square posts
- Accepts double sided PC boards 0.051" – 0.070" thick
- Voltage rating: 1000VAC
- Contact res.: 10mΩ max. • Contact rating: 3A
- Insulation resistance: 5000MΩ min.
- Housing: glass filled polyester 94V-0 rated
- Contacts: phosphor bronze w/ 30µ" gold in contact area, tin on posts w/ entire contact nickel underplated

Part No.	Product No.	1	10	100
849629	5-530843-0	$2.15	$1.94	$1.83

AMP Extraction Tool NEW

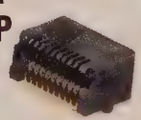


- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

Part No.	Product No.	1	10	100
841838	305183	$17.85	$16.07	$14.47

AMP FT Connector Assembly SFP

Small Form-Factor Pluggable



- Right angle 0.8mm pitch
- Contact: phosphor bronze
- Housing: high-temperature LCP UL94V-0 rated, black
- Plating: 0.38µ" min. gold in contact area, 13µ" min. gold in solder area, 38µ" min. nickel underplate

Part No.	Product No.	Positions	1	10	100
741010	1367073-1	20	$1.89	$1.75	$1.57

AMP 0.8mm Free Height (FH) Connector NEW



- Housing: high temperature thermoplastic, 94V-0 rated, natural
- Contacts: brass, duplex plated 200µm gold on contact area, 100µm matte tin on solder area

Part No.	Product No.	Positions	1	10	100
742805	179031-5	100	$8.45	$7.38	6.70

.100" IDC DIP Flat Cable Plugs

JAMECO EXCLUSIVE



- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 81 42674
- Plastic with gold-plated contacts • Current rating: 1A

Part No.	Cross Ref. No.	Width	Contacts	1	10	100
42657	609-14	0.3"	14	$.55	$.452	$.396
42674	609-16	0.3"	16	.65	.53	.412
104097	609-20	0.3"	20	.83	.75	.66
42691	609-24	0.6"	24	.95	.80	.60
99670	609-28	0.6"	28	.98	.83	.63
42712	609-40	0.6"	40	1.42	.96	.86

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

Cinch .085" (2.16mm) Density Mini Ribbon Connector

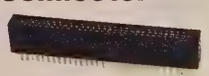
IDC, Super Ribbon w/ Hood (Plastic)



- Standard 90° orientation, commercial end entry cable
- Terminates discrete wires with ultra-low resistance solder connections
- Metal shell provides grounding/shielding capability
- All plugs lock w/ INSTALATCH passive latch features for automatic latching • Bail latch, 0.116" hole
- Insulator: blue UL94V-0 rated diallyl phthalate type MDG • Contact: copper alloy
- Contact plating: select gold over 50µ" select nickel (standard); 30µ" select gold over 50µ" select nickel
- Shell: steel; plating: zinc w/ chromate coating
- Voltage rating: 500VAC/125VAC
- Withstanding voltage: 1200VAC$_{RMS}$
- Contact rating: 5A • Contact resistance: 6mΩ
- Insulation resistance: 5000MΩ min. initial

Part No.	Product No.	Positions	1	25	50
1809371	97-22640-91	64 socket	$7.99	$7.49	$7.29

Card-Edge Connector



- Fits all PC boards
- 0.054" to 0.070" thick
- Solder tail 0.200" spacing between rows
- Contact centers: 0.100" • Without mounting ears

Blue Part No. = Limited Quantity Available

Part No.	Position	Contacts	1	10	100
40694	31/62	Tin (PC/AT)	$1.45	$1.25	$.99

PCB Centronics Connector

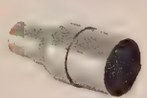


- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body • PC mount

Part No.	Description	1	10	100
72151	36-contact F, rt angle	$3.55	$3.19	$2.87

PS/2 Keyboard Adapter

JAMECO EXCLUSIVE



- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	100
159097	1.4"	Metal	$3.49	$2.99	$2.24

AMP Metric Champ

Stand-Off Stud Hardware Kit



- Material: black oxide coated carbon steel

Part No.	Product No.	1	10	100
852385	554808-1	$1.99	$1.89	1.85

AMP Flexible Flat Conductor Contacts NEW



947851

- Cable thickness: 0.015" thick max.
- Conductor width: 0.047" min.
- Contacts: 841491- phosphor bronze, 100µ" tin lead; 947851 - phosphor bronze, 30µ" gold in mating area, 100µ" bright tin lead on crimp area

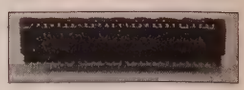
Part No.	Product No.	Description	Price
841491	889997-2	Solder tab ★	Call/Web
947851	487406-2	Receptacle ★	Call/Web

★ Please call or visit our website for minimum order quantity & pricing

Cinch CARDCON™ Edge Connectors

- 0.156" (3.96mm) density • Contact res.: 6mΩ max.
- W/standing volt.: 1800VAC$_{RMS}$ • Current rating: 5A
- Insulation resistance: 5000MΩ min.

Commercial Grade



423265

- Insulation material: glass filled polyester, black, UL94V-0 rated
- Contact material: spring brass
- Contact plating: 10µ" selective gold over 30µ" nickel in contact, tin on tails

Double solder tails, double readout, 0.200" (5.08mm) row spacing

Part No.	Product No.	Contacts/Pos.	1	10	100
1775941	50-12SN-3	6/12	$2.39	$2.08	$1.78
423118	50-20SN-3	10/20	3.25	2.98	2.69
423265	50-44SN-3	22/44	5.29	4.79	4.39

High Reliability



- DIP solder/solder eyelet
- Insulation material: thermoplastic black or diallyl phthalate green
- Contact material: phosphor bronze
- Contact plating: 30µ" selective gold over 50µ" copper in contact area, 5µ" gold on tails

DIP solder tail, double readout, 0.200" (5.08mm) row spacing

Part No.	Product No.	Contacts/Pos.	1	25	50
1775959	50-30H-10	15/30	$6.99	$6.49	$6.29
1775967	50-44H-10	22/44	9.49	9.29	8.75
423273	50-44B-10	22/44	4.39	4.17	3.82

DIP solder tail, single readout, 0.128" (3.25mm) mounting hole

Part No.	Product No.	Contacts/Pos.	1	25	50
423290	50-22B-10	22/22	$6.25	$5.67	$5.21

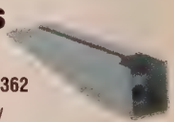
Cinch Card Extender



- Insulation material: diallyl phthalate, green
- Contact material: beryllium copper
- Contact plating: 30µ" select gold over 50µ" nickel in contact area, 10µ" gold tails
- Withstanding voltage: 830VAC$_{RMS}$
- Current rating: 5A • Contact resistance: 5mΩ max.
- Insulation resistance: 5000MΩ min.

Part No.	Product No.	Contacts/Pos.	1	25	50
1775975	50-44S-30	22/44	$7.99	$7.49	$7.29

Cinch Accessories

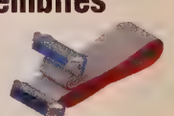


1809362: card guide, polypropylene, green 1809362

448489: polarizing key, glass epoxy

Part No.	Product No.	1	25	50
1809362	50GP-1	$.99	$.89	$.82
448489	50PK-2	.29	.26	.24

Ribbon Cable Assemblies



- Metal connector • 300V rating
- 28 AWG flat cable
- 105°C rating
- Tin-plated contacts 12408

Part No.	Description	1	10	100
12408	4' DB25 M-F	$5.09	$4.33	$3.25
208582	6' DB9 M-F	4.75	4.26	3.83

This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Jones Plugs and Sockets are available online at www.Jameco.com/Interconnects

Cinch Jones Plugs and Sockets

Series 300 Multiple-Density Solder-Eyelet Connectors


248823


248786

- Insulation material: molded monoblock, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Current rating: 10 amps
- Operating voltage: 250VAC max.
- Contact resistance:16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic

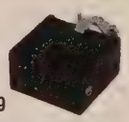
Sockets with Hood and 180° Clamp

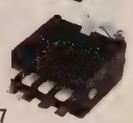
Part No.	Product No.	Contacts	1	25
248807	S-302-CCT	2	$2.69	$2.47
248823	S-304-CCT	4	3.15	2.90
248831	S-306-CCT	6	3.75	3.33

Plugs with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
248786	P-304-CCT	4	$3.39	$2.74
248794	P-306-CCT	6	4.25	3.19

Series 2400 Multiple-Density Solder-Eyelet Connectors


444699


428197

- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Contact plating: cadmium
- Plug prongs are 0.250"W x 0.55"Th.
- For use in cable-to-cable and cable-to-panel applications
- Socket contacts have solder eyelets with 0.093" dia.
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact material: plug–brass; socket–phosphor bronze
- Hood material: formed metal with dielectric liner

Socket with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
444699	S-2408-CCT	8	$8.79	$7.99

Plug with Hood and 180° Clamp

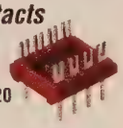
Part No.	Product No.	Contacts	1	25
428197	P-2408-CCT	8	$10.39	$9.48

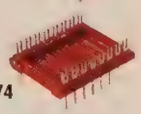
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Our friendly Sales department will assist you 24x7x365 by phone, fax, web or email. 1-800-831-4242

ARIES ELECTRONICS, INC. DIP Headers

Series 600 Headers w/ Coined Contacts


291120


291574

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads

Part No.	Product No.	Pos.	W (in.)*	1	10	100
291120	08-600-10	8	0.300	$1.09	$.96	$.79
291312	14-600-10	14	0.300	1.55	1.37	1.11
291574	16-600-10	16	0.300	1.69	1.49	1.22

* Center to center pin width

DIN and Mini DIN Plugs & Receptacles


177236

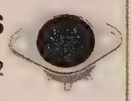

15887

- Solder barrels w/ strain relief
- See pg 82 for cable

JAMECO EXCLUSIVE

Part No.	Pins	Type	1	10	100
142280	4	Mini plug	$.85	$.75	$.56
142262	6	Mini plug	.89	.77	.59
177244	6	Mini receptacle	1.19	1.02	.83
111879	8	Mini plug	1.19	1.07	.89
177236	8	Mini receptacle ⊕	1.09	.93	.69
15879	5	DIN plug	.54	.49	.43
180873	5	DIN receptacle	.63	.54	.408
15887	6	DIN plug	.65	.54	.422
15895	8	DIN plug	.78	.68	.516

DIN Female Sockets


15852

- Panel mount with solder lugs
- Metal body

✪ Blue Part No. = Limited Quantity

Part No.	Cross Ref.	# of pins	1	10	100
15843	DINJ5 ⊕ ✪	5	$1.45	$1.26	$1.15
15852	DINJ6	6	1.75	1.56	1.44
15861	DINJ8	8	1.49	1.35	1.15

Right Angle DIN Female Sockets


29400

- Set back: 0.5"
- PC mount contacts

JAMECO EXCLUSIVE

119474: Plastic/metal body
29400: Plastic body

✪ Blue Part No. = Limited Quantity

Part No.	Cross Ref. No.	# of pins	1	10	100
119474	MDR6S ⊕ ✪	6 (mini)	$.94	$.80	$.62
29400	RD5	5	.56	.49	.38

D-Sub 9-Pin to 25-Pin Serial Adapters

JAMECO EXCLUSIVE

10321: For PC/XT systems with DB25 serial ports.
139985: gold-plated contacts, extra long thumbscrews


139985

Part No.	Description	1	10	100
10321	DB9 M to DB25 F ⊕	$5.15	$4.32	$3.64
189632	DB9 M to DB25 M ⊕	3.49	3.15	2.85
139985	DB9 F to DB25 F ⊕	3.99	3.36	2.52

Great Prices on Special Buys*

D-Sub 9-Pin to 25-Pin Serial Adapter

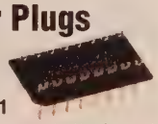


10305: For use in AT or other computer systems that have 9-pin D-sub serial ports.

Part No.	Description	1	10	100
10305	DB9 F to DB25 M ⊕	$3.15	$2.69	$1.99

* Manufacturer may vary

CA .100" DIP Header Plugs


37331

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

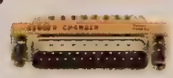
Part No.	Product No.	Width	Pins	1	10	100
37130	14HP	0.3"	14	$1.55	$1.36	$1.02
37331	16HP	0.3"	16	1.65	1.45	1.17

Slim-Line D-Sub Gender Changers

JAMECO EXCLUSIVE


18497


56071


18447

For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male) • Tin plated shells
- Captive locking nut (female) • Grounding tangs (male)

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
18497	9-pin male to male ⊕ ✪	$5.19	$4.72	$4.19
18489	9-pin female to female ⊕	5.85	5.29	4.70
56071	15-pin male to male	3.95	3.49	2.95
56063	15-pin female to female	4.15	3.74	3.35
119320	15-pin female to female HD	4.75	4.28	3.84
119301	15-pin male to male HD ⊕	5.25	4.76	4.19
18447	25-pin male to male	5.95	5.39	4.79
18420	25-pin female to female ⊕	5.95	5.48	4.86
170085	25-pin M-F (pass through)	3.55	3.18	2.82

Full Handshaking Null Modem Adapters

JAMECO EXCLUSIVE

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.


26243

Internal pin configuration:
17224: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20
26243: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7

Part No.	Description	1	10	100
26243	DB25 M to DB25 F ⊕	$4.35	$3.98	$3.80
17224	DB25 F to DB25 F ⊕	3.65	3.10	2.32

Standard D-Sub Gender Changers

JAMECO EXCLUSIVE


16635


16643

- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635	D-sub 9-pin male ⊕	$2.59	$1.79	$1.34
16643	D-sub 9-pin female ⊕	2.29	2.13	1.59

USB-A & B Connectors

1.0 & 2.0 Female Connectors

JAMECO EXCLUSIVE


161024 (USB-A)


230957 (USB-B)

- PC mount right angle with board locks

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100	1000
161024	USB-A 1.0 connector	$.86	$.75	$.68	$.61
230957	USB-B 2.0 connector ⊕ ✪	.99	.85	.55	.42

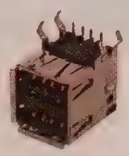
RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: *New Sale Lower$ QtySave*

AMP USB Type-A Connector

- Right angle female
- Dual stacked
- 4-position thru-hole
- Material: thermoplastic UL94V-0 black
- Shell & contacts: copper alloy
- Plating: contact - 0.076µm gold over 0.076µm min. palladium nickel on mating are; 3.80µm tin/lead on solder tails; shell – 5.10µm bright-tin over copper

NEW



Part No.	Product No.	1	10	100
839842	787617-1	$1.32	$1.29	$1.25

AMP USB Type-B Connectors

- Right angle, female
- 4-position, thru-hole
- Material: shell and contacts – copper alloy; housing – UL94V-0 thermoplastic
- Plating: 0.076µm min. gold over 0.76µm min. palladium-nickel on mating area, 3.8µm min. matte tin on solder tails both over nickel



Part No.	Product No.	Color	1	10	100
841053	292304-1	Black	$.89	$.86	$.84
839906	787780-2	Natural	1.49	1.29	1.17

PS/2 – USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.



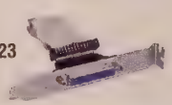
- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse

Part No.	Length	Housing	1	10	25
645351	13"	USB adapter	$12.35	$11.75	$11.15

Panel Bracket Cable Assemblies

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector

149623

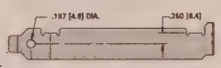


355688: 1 serial port **149623:** 1 parallel port

Part No.	Description	1	10	25
355688	DB9 to 10-pin header	$2.25	$1.91	$1.43
149623	DB25 to 26-pin header	4.29	3.65	2.74

KEYSTONE Computer Card Bracket

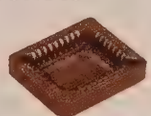
- 4-40 threaded tabs
- Material: steel, nickel plated
- Length: 4.725" • PCI format



Part No.	Product No.	Description	1	10	100
1582356	9203	Blank panel	$1.99	$1.95	$1.92

AMP SMT PLCC Sockets

- 4.6mm high
- Housing: high temperature thermoplastic, UL94V-0 brown
- Voltage/current rating: 250V, 1A
- Contact resistance: 200MΩ max.
- Contacts: phosphor bronze/tin lead (1404699: phosphor bronze/mate-tin)
- Insulation resistance: 5000MΩ min.



1404699

NEW

Part No.	Product No.	Positions	Price
841723	3-822498-1	32 ★	Call/Web
1404699	3-822516-7	32 ★	Call/Web

★ Please call or visit our website for minimum order quantity & pricing

See pages 209 for more Socket & Cover

AMP DIP Sockets



837679 837708 837863 526205

Dual Leaf Straight Solder Tail, Phosphor Bronze w/ 15µ" Gold Plate

NEW

- Accepts .008" to .014" thick IC leads
- Housing: glass filled thermoplastic, 94V-0 rated, black

✳ Minimum order 5 pieces

Part No.	Product No.	Pos.	Width	1	5	100
837679	2-640463-4	8	0.3	$.85	$.61	$.54

Retention Solder Tails, Beryllium Copper/Tin

Part No.	Product No.	Pos.	Width	1	5	100
837708	2-641260-1	8	0.3	✳	$.216	$.206
838090	2-641609-1	14	0.3	.59	.47	.36
838196	2-641615-1	28	0.3	.71	.60	.57

Retention Solder Tails, Phosphor Bronze/Tin

Part No.	Product No.	Pos.	Width	1	5	100
837863	2-641267-3	28	0.6	✳	$.392	$.353

Economy Ladder Style

- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating
- **Minimum order 10 pieces**

Part No.	Product No.	Pos.	Width	10	100	500
683091	1-390261-1	6	0.3	$.071	$.068	$.065
526299	390261-2	8	0.3	.081	.074	.07
683104	1-390261-2	8	0.3	.081	.074	.07
526192	390261-3	14	0.3	.089	.084	.081
683112	1-390261-3	14	0.3	.106	.098	.089
526205	390261-4	16	0.3	.093	.086	.082
683121	1-390261-4	16	0.3	.125	.105	.098
526213	390261-5	18	0.3	.146	.135	.118
683139	1-390261-5	18	0.3	.146	.135	.118
526221	390261-6	20	0.3	.155	.137	.13
683147	1-390261-6	20	0.3	.141	.129	.119
683163	1-390261-8	24	0.3	.183	.174	.165
683198	1-390262-1	24	0.6	.185	.176	.167
526248	390261-9	28	0.3	.243	.235	.219
683171	1-390261-9	28	0.3	.243	.235	.219
526256	390262-2	28	0.6	.255	.237	.221
683201	1-390262-2	28	0.6	.255	.237	.221
526272	390262-5	40	0.6	.233	.216	.212
683227	1-390262-5	40	0.6	.282	.271	.252

AMP DIMM Socket for SDRAM Modules

- Material: high temperature plastic, UL94V-0 natural
- Latch: stainless steel, tin plating
- Contact: copper alloy/25µ" gold plate on contact area, 30µ" gold plate on solder area

NEW

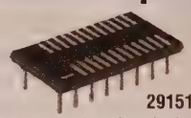


Part No.	Product No.	Positions	1	10	100
847869	390112-1	144	$5.35	$3.56	$3.10

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ARIES ELECTRONICS, INC. SOIC/SOJ to DIP Adapters

Series 350000



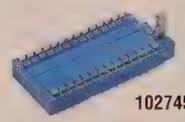
291515

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins w/ 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028" (0.71mm) Dia.
- Center pins: 0.300" (7.62mm) • SOIC package

Part No.	Product No.	Pins	L"xW"	1	10	100
291208	08-350000-10	8	.400 x .46	$6.85	$5.72	$5.26
291515	16-350000-10	16	.800 x .45	6.55	5.59	4.65

ARIES ELECTRONICS, INC. Low Profile ZIF Sockets

Series 526

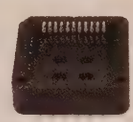


102745

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max. • Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" (0.89mm) Dia.

Part No.	Product No.	Pins	L" x W"	1	10	100
102745	28-526-10	28	1.64 x .75	$5.75	$5.24	$4.71
102753	40-526-10	40	2.24 x .75	9.25	7.09	6.36

AUGAT PLCC Sockets



848765

- Contacts: copper alloy with 180µ" to 340µ" tin plate over 50µ" min. nickel
- Insulator: PPS brown, UL94V-0
- Contact res.: 30mΩ max.
- Capacitance: 1pF max. @ 1kHz • Current rating: 1A
- Dielectric withstanding voltage: 600VAC
- Size: 848765: 0.89"W x 0.36"H; 848829: 1.39"W x 0.36"H

Part No.	Product No.	Positions	1	10	100
848765	PCS-044A-1-LF	44	$2.09	$2.07	$2.05
1020441	PCS-068A-1-LF	64	2.45	2.07	1.96
848829	PCS-084A-1-LF	84	2.89	2.77	2.64

AUGAT HOLTITE Series Zero-Profile Press-Fit Socket



- Contact resistance: 10mΩ max.
- Contact rating: 3A
- Carrier strip: mylar • Finish: gold
- Contact: beryllium copper
- Round lead: 0.025" to 0.035" diameter
- **Minimum order 5 pieces**

Part No.	Product No.	5	100
848132	8134-HC-8P2	$.161	$.155

Computer Card Brackets



Fig.: 1 2 3 4

- For securing cards into bus slots • Length: 4.75"
- Fits PC/XT/AT cases • See pg 92 for DB connectors

Blue Part No. = Limited Quantity Available

Part No.	Description	Fig.	1	10	100
101717	For DB9 connector	1	$1.79	$1.59	$1.45
101733	For DB25 connector	2	1.79	1.52	1.14
101741	For DC37 connector	3	1.79	1.52	1.14
101831	For DB9/DB25 conn.	4	1.79	1.59	1.45

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

DIP, Solder Tail & Wire Wrap Sockets

Additional Sockets are available online at www.Jameco.com/Interconnect

PLCC Solder Tail Sockets



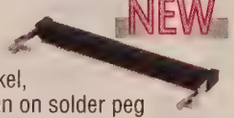
- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"

JAMECO EXCLUSIVE 71969

Part No.	Cross Ref. No.	Pins	1	10	50	100
71618	G1P444⊕	44	$1.15	$.99	$.81	$.69
72442	G1P452⊕	52	1.05	.83	.68	.58
71969	G1P468	68	1.39	1.18	1.06	.94
71977	G1P484	84	1.35	1.24	.97	.73

AMP Single Row DDR Socket

NEW



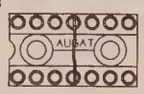
- Locklever: stainless steel
- Contact & solder pegs: copper alloy
- Plating: gold flash over nickel, gold plate on solder area, tin on solder peg
- Housing: high temperature thermoplastic, UL94V-0

Part No.	Product No.	Pins	1	10	100
898818	1473005-1 ♠	200	$11.89	$11.28	$10.72

AUGAT DIP Sockets

NEW

500 Series Four Fingered Contact & Solid Insulator



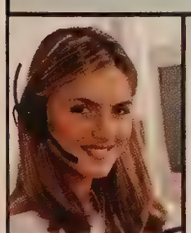
- Precision four fingered inner contacts provide concentric funnel entry for easy flat and rounded lead insertion
- Insulator: thermoplastic polyester, UL94V-0 rated
- Sleeve: machined brass/formed copper
- Contact: beryllium copper • Contact plating: gold
- Contact res.: 10mΩ max. • Contact rating: 3A
- Capacitance: 1pF per MIL-STD-202
- Insulation resistance: 5000MΩ min.
- Dielectric withstanding voltage: 1000V_{RMS}

Part No.	Product No.	Pins	Width	1	10	100
619971	508-AG10D ♠	8	0.3"	$2.15	$1.89	$1.78
619989	514-AG10D ♠	14	0.3"	4.19	3.78	3.14
620015	516-AG10D ♠	16	0.3"	5.39	4.85	4.59
847754	520-AG10D ♠	20	0.3"	4.25	3.99	3.75
847877	528-AG10D ♠	28	0.3"	11.49	10.77	10.13
848001	540-AG11D ♠	40	0.6"	13.75	12.88	12.12

800 Series Open Insulator

Part No.	Product No.	Pins	Width	1	10	100
848343	820-AG11D-ESL ♠	20	0.3"	$.85	$.76	$.71
848511	824-AG31D-ESL ♠	24	0.3"	1.05	.99	.94
848562	828-AG11D-ES ♠	28	0.6"	1.17	.99	.95
765548	828-AG11D-ES-LF ♠	28	0.6"	1.15	1.04	.98

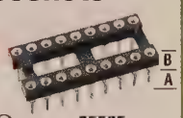
30-Day Money-Back Guarantee



If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 204.

Machine Tooled Solder Tail Low-Profile Sockets



JAMECO EXCLUSIVE 65585

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V_{RMS}
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A) • Body ht.: .117" (B)

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
167003	6MLPT⊕✪	6	0.3	$.29	$.26	$.18
51626	8MLP	8	0.3	.28	.25	.21
37197	14MLP	14	0.3	.44	.40	.34
37402	16MLP	16	0.3	.47	.43	.323
65585	18MLP	18	0.3	.65	.57	.492
38623	20MLP⊕	20	0.3	.59	.55	.45
39386	24SMLP⊕✪	24	0.3	.78	.71	.64
39351	24MLP⊕	24	0.6	.78	.71	.64
114412	28SMLP	28	0.3	.85	.75	.65
40329	28MLP	28	0.6	1.95	1.77	1.53
105381	32MLP	32	0.6	.95	.85	.75
41136	40MLP⊕	40	0.6	1.59	1.42	1.07
42060	48MLP	48	0.6	1.55	1.32	.99

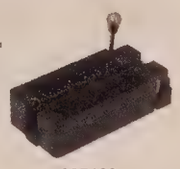
Great Prices on Special Buys*

662573	8MLP	8	0.3	$.22	$.20	$.17
192209	224SMLP	22	0.4	.53	.477	.382
652359	24MLP-GLD	24	0.6	.59	.53	.42
184680	284SMLP	28	0.4	.80	.72	.58

* Manufacturer may vary ✪ Blue Part No. = Limited Quantity Available

ARIES ELECTRONICS, INC. High Temp. Universal ZIF Test Sockets

Series 6554



295162

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature: -10: 221°F (105°C) – tin plating -11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600"
- Insulation res.: 1000MΩ • Contact current: 1A
- Dielectric withstanding voltage: 1000VAC

Part No.	Product No.	Pins	L" x W"	1	10	100
103992	24-6554-10	24	1.8 x 0.9	$7.89	$7.13	$6.29
104003	28-6554-10	28	2.0 x 0.9	8.89	7.76	7.51
104012	32-6554-10	32	2.1 x 0.9	9.95	8.49	8.29
104030	40-6554-10	40	2.5 x 0.9	11.85	10.29	9.92
295162	28-6554-11	28	1.4 x 0.9	11.85	10.91	10.36
295209	32-6554-11	32	1.6 x 0.9	13.49	11.77	11.44
295233	40-6554-11	40	2.0 x 0.9	16.25	14.19	13.79

AMP PGA Socket

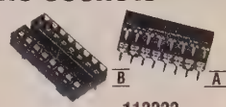
NEW



- Open frame style
- Low profile
- Intel Celeron, PIII chip compatibility
- LCP cover material, UL94V-0 natural
- Contacts: copper alloy/gold • 19 x 19 grid

Part No.	Product No.	Pins	1	10	100
838735	2-916783-2	370	$7.95	$5.55	$5.03

Dual Wipe Solder Tail Low-Profile Sockets



112222

JAMECO EXCLUSIVE

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Body height: .188" (B)
- Dielectric withstanding voltage: 300V
- Insulation res.: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- **Prepackaged: please order in increments of 10**

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
112193	6LPD	6	0.3	$.09	$.066	$.063
112206	8LPD	8	0.3	.09	.08	.07
112214	14LPD	14	0.3	.10	.075	.05
112222	16LPD	16	0.3	.13	.115	.095
112231	18LPD	18	0.3	.138	.105	.078
112282	24SLPD	24	0.3	.28	.26	.18
112266	24LPD	24	0.6	.164	.147	.121
112299	28SLPD⊕✪	28	0.3	.21	.19	.17
112301	32LPD	32	0.6	.206	.191	.175
112311	40LPD	40	0.6	.317	.259	.225

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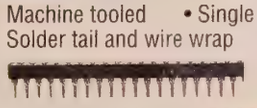
Single & Dual Wipe Low-Profile Sockets

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
51571	8LP	8	0.3	$.082	$.073	$.06
689928	ED08DT	8‡	0.3	.081	.069	.052
37162	14LP	14	0.3	.092	.069	.046
689936	ED14DT	14‡	0.3	.092	.069	.046
37373	16LP	16	0.3	.119	.105	.087
38113	18LP	18	0.3	.105	.097	.073
689952	ED18DT	18‡	0.3	.119	.105	.087
38608	20LP	20	0.3	.153	.130	.098
112248	20LPD⊕✪	20‡	0.3	.153	.13	.098
39378	24SLP	24	0.3	.187	.178	.16
39335	24LP⊕✪	24	0.6	.16	.15	.11
40301	28LP	28	0.6	.171	.117	.087
112272	28LPD	28‡	0.6	.19	.16	.12
689961	ED28DT	28‡	0.3	.18	.15	.11
689979	ED32DT	32‡	0.6	.18	.15	.11
41111	40LP	40	0.6	.25	.23	.16
689987	ED40DT	40‡	0.6	.22	.19	.13

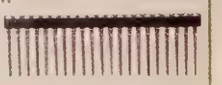
‡ Dual Wipe * Manufacturer may vary ✪ Blue Part No. = Limited Qty

Machine Contact Single-In-Line Female Sockets

- Machine tooled • Single row
- Solder tail and wire wrap



78642



104054

JAMECO EXCLUSIVE

Part No.	Description	1	10	100
102201	10-pin	$.27	$.24	$.21
78642	30-pin	.99	.88	.76
175920	36-pin	1.35	1.20	1.07
101283	20-pin WW2 †	1.65	1.49	1.19
104054	30-pin WW3 *	2.25	2.01	1.71

† Lead length: .435"(2) * Lead length: .575" (3)

Machine Contact Dual-In-Line Female Socket



- 0.100" centers
- Solder tail contact: .114"L
- Contact clip: gold • Pin sleeve: tin

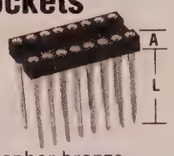
Part No.	Cross Ref. No.	Pins	1	10	100
212936	SA481000	48	$1.20	$1.11	$1.01

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold
- Tin-plated leads
- Contact resistance: <5mΩ
- Dielectric withstanding voltage: 300V_{RMS}
- Material: beryllium copper or phosphor bronze
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Insulation resistance: greater than 1000MΩ
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)



37411

JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
94474	8MSWW3	8	0.3	$.64	$.55	$.456
62051	14MSWW3	14	0.3	1.05	.88	.74
37411	16MSWW3	16	0.3	1.19	1.01	.85
94482	18MSWW3	18	0.3	1.15	.98	.82
38632	20MSWW3	20	0.3	1.39	1.20	1.00
105372	24SMSWW3	24	0.3	1.59	1.36	1.14
94491	24MSWW3	24	0.6	1.85	1.58	1.34
200716	283MSWW3	28	0.3	1.85	1.54	1.29
40336	28MSWW3⊕✪	28	0.6	1.89	1.60	1.52
117058	32MSWW3	32	0.6	2.19	2.00	1.79
94503	40MSWW3	40	0.6	2.75	2.35	1.96

Great Prices on Special Buys*

313656	24MSWW3	24	0.6	$1.59	$1.35	$1.01

*Manufacturer may vary ✪ Blue Part No. = Limited Quantity Available

Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: <5mΩ
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Dielectric withstanding voltage: 300V
- Sleeve material: brass • Body height: .300" (A)



37234

Gold (WW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37234	14WW2	14	0.3	$2.29	$2.00	$1.66	$1.47
37480	16WW2	16	0.3	3.49	2.81	2.27	1.95
40353	28WW2	28	0.6	5.75	5.15	4.75	4.15

Tin (TWW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37218	14TWW2	14	0.3	$1.75	$1.55	$1.40	$1.26
87637	18TWW2	18	0.3	1.43	1.36	1.29	1.19
75380	20TWW2	20	0.3	3.19	3.05	2.26	1.97
75416	24TWW2⊕	24	0.6	2.25	1.98	1.49	1.25
41180	40TWW2	40	0.6	3.29	2.91	2.76	2.62

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196841	14TWW3	14	0.3	$.94	$.85	$.68	($.51)

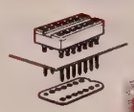
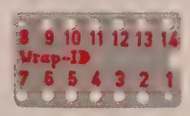
*Manufacturer may vary

Commercial Customers

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Wire Wrap Socket I.D. Markers

- Material: plastic
- Quick identification of pin numbers
- Slips onto socket before wrapping
- Can easily write location, part number or function

37145

Part No.	Prod. No.	Pins	Width (in.)	1	10	100
51561	8ID	8	0.3	$.63	$.276	($.207)
37145	14ID	14	0.3	.35	.31	.28
37356	16ID	16	0.3	.36	.325	.247
38586	20ID	20	0.3	.55	.50	.45
39327	24ID	24	0.6	.44	.408	.384
40299	28ID	28	0.6	.86	.78	.63
41101	40ID	40	0.6	.94	.92	.91

SIMM Socket



- Locking tabs • Tinned contacts
- Keyed mounting posts
- Memory module sockets

JAMECO EXCLUSIVE

Part No.	Description	1	10	100	500
100302	Single x 30-pin, vert.	$.99	$.89	$.79	$.75

BNC Connectors and Adapters

- Frequency range: 0-4GHz
- Contact plating: silver/gold
- Working voltage: 500V
- Cable type: **188349:** RG174/188A; **188306:** RG58/141
- Body plating: nickel/tin-lead


Fig.1

Fig. 2

Fig. 3

Fig. 4

Part No.	Product No.	Fig.	Description	1	10	25
188429	31-208-RFX	1	50Ω jack-plug-jack	$4.19	$3.39	$2.65
223554	31-3220	2	50Ω bulkhead adapter, straight, jack-jack (UG-492D/U)	11.05	10.05	(7.54)
223511	31-221	3	50Ω bulkhead receptacle, straight, solder cup (UG-1094/U)	2.05	1.92	1.80
188349	31-315-RFX	4	50Ω plug crimp, 3-piece	2.25	1.99	1.75
188306	31-320-RFX	4	50Ω plug crimp, 3-piece	1.39	1.24	1.20

BNC Connectors

JAMECO EXCLUSIVE


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Fig. 17

Part No.	Cross Ref. No.	Fig.	Description	1	10	100
311343	31-10-RFX⊕✪	1	50Ω BNC jack, bulkhead	$2.55	$2.12	$1.71
311327	69475⊕	2	50Ω BNC plug, clamp for RG-174/179/187/188/316	5.85	4.72	(3.54)
355178	31-221⊕✪	3	50Ω BNC blkhd rcptcle w/ grounding lug, solder cup (UG-1094/U)	2.29	2.09	1.95
71790	200-177	4	BNC male terminator (75Ω)	1.65	1.31	1.07
135618	200-141	5	BNC male with pin and ferrule (RG6)	1.18	.92	.60
71482	200-145	5	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35
71271	200-143	5	BNC male with pin and ferrule (RG59/62)	1.15	.96	.85
112109	G7409⊕	5	BNC male with pin and ferrule (RG174)	1.79	1.45	1.29
71781	200-142	6	BNC male twist-on (RG59/62)	1.15	1.04	.94
71589	G1B235⊕✪	7	BNC female panel mount (UG-1094A)	1.49	1.35	1.25
71909	200-160	8	BNC female/female coupler (UG-914)	1.29	.99	.85
127343	B-311⊕	9	BNC male/male coupler (UG-491B/U)	2.39	2.15	1.67
111561	200-148	10	BNC female isolated bulkhead	2.29	1.99	1.79
148224	200-165	11	BNC female bulkhead feed-thru	1.99	1.89	1.69
148232	B-332-IF⊕	11	BNC female isolated bulkhead feed-thru	2.49	2.24	(1.68)
127352	B-412	12	BNC M-F right angle (DG-306B/O)	3.15	2.36	1.77
160929	B211F-58	13	BNC female, crimp type (RG58)	1.49	1.31	1.19
161922	B211F-174	13	BNC female, crimp type (RG174)	1.79	1.49	(1.12)
174290	TBC-090	14	BNC female chassis mount	1.43	1.22	(.92)
174255	TBC-176	15	BNC male to F connector female	2.35	1.86	1.70
146510	CH-7044S⊕✪	16	BNC female R/A plastic insulation	1.95	1.75	1.49
161656	CH-7087D⊕	17	BNC female right-angle metal	2.45	2.12	(1.59)

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

SMB PCB Connector

- 0-4GHz electrical performance
- Contact: beryllium copper
- Gold plated brass
- Insulation: teflon

JAMECO EXCLUSIVE



Part No.	Description	1	10	50
167312	Right angle PCB ℞	$5.39	$4.45	$4.10

SMB Connector

- For use with RG-174 coax
- 50Ω crimp type • Gold plated
- Use with crimping tool P/N 114535, pg 188

✪ Blue Part No. = Limited Quantity Available



Part No.	Description	1	10	50
172371	Cable crimp plug ⊕✪	$4.85	$4.33	$3.72

SMA PCB Jacks

- Applications: cellular phone, data communication, instrumentation and video • 50Ω impedance
- Frequency range: 0-18GHz
- Temp. range: -65°C to 165°C



188509 188525

Part No.	Product No.	1	10	25
188509	901-144-8-RFX ℞	$3.19	$2.56	$2.49
188525	901-143-6-RFX ℞	5.25	5.15	5.05

BNC Adapters

- Silver-plated
- General purpose coax T-adapter
- ThinNet/Ethernet LAN adapter

✪ Blue Part No. = Limited Quantity Available

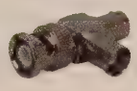
JAMECO EXCLUSIVE



118594



72629



207087



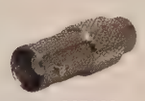
100597



207116



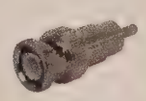
117461



207168



114789



207175



114753



114770



207142

Quantity Save



363961



355152

Part No.	Cross Ref. No.	Description	1	10	100
118594	200-155	Male to female/female T-adapter	$2.85	$2.58	$2.10
72629	200-150	Female to female/female T-adapter	2.49	2.25	1.99
207087	BJ-7078	Female to male/female T-adapter	10.05	9.49	9.22
100597	40958-Y	Male to female/female T-adapter (180°)	5.99	5.39	4.85
207116	BJ-7082	Male to female/female/female T-adapter	7.19	6.45	5.79
117461	B-068 ⊕✪	Male to female/female F-adapter (90°)	4.35	3.95	3.55
207168	BJ-7072 ℞	RCA female to BNC female	2.39	2.15	1.91
114789	BR312 ℞	RCA female to BNC male adapter	1.59	1.23	1.16
207175	BJ-7055 ⊕	RCA male to BNC male	2.69	2.03	1.89
114753	RB312 ⊕	RCA male to BNC female adapter	1.59	1.45	1.29
114770	200-108	BNC female to "F" connector male adapter	1.79	1.59	1.39
207142	BJ-7075 ℞	3.5mm mono male to BNC female	2.05	1.79	1.53
363961	31-218 ⊕	50Ω BNC straight adapter, plug-plug (UG-491A/U)	7.69	6.56	4.92
355152	31-219-RFX ℞	50Ω BNC straight adapter, jack-jack (UG-914/U)	2.65	2.44	2.20



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

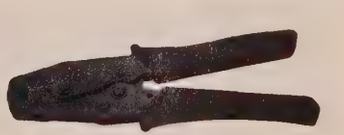
BNC Connectors and Adapters 50Ω/75Ω

* Crimp tools for these connectors below

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
295953	112116 ℞	1	A	50Ω straight crimp plug, captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	$1.59	$1.37	$1.30
295970	112119 ℞	1	A	75Ω straight crimp plug, captive contact	RG-59/62/140/210	1.65	1.54	1.48
296016	112133 ℞	1	B	75Ω straight crimp plug, captive contact	RG-179/187/B9221	1.40	1.34	1.28
296631	112161 ℞	2	B	75Ω straight crimp jack	RG-179/187/B9221	2.15	1.77	1.33
658371	112202 ℞	3	A	50Ω bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	3.39	3.20	2.40
658401	112235 ℞	3	B	75Ω bulkhead crimp jack	RG-179/187/B9221	3.25	3.05	2.94
658427	112424 ℞	4	—	50Ω receptacle jack, solder terminal	All 50Ω coax cables	1.79	1.67	1.61
296067	112431 ℞	5	—	50Ω bulkhead rec. jack, isolated, solder term.	All 50Ω coax cables	2.99	2.89	2.72
658486	112443 ℞	6	—	50Ω jack-to-jack bulkhead adapter, isolated	All 50Ω coax cables	3.19	3.04	2.91
658507	112445 ℞	7	—	50Ω jack-to-jack adapter	All 50Ω coax cables	2.15	2.07	1.93
296083	112446 ℞	7	—	75Ω jack-to-jack adapter	All 75Ω coax cables	2.15	2.02	1.92
658515	112461 ℞	8	—	50Ω T-adapter, jack-plug-jack	All 50Ω coax cables	1.85	1.76	1.66
658540	202100 ℞	9	—	Male cap with chain	All BNC female connectors	1.89	1.80	1.78
658523	202103 ℞	10	—	50Ω terminator plug	All 50Ω coax cables	2.15	2.07	1.93
658531	202105 ℞	10	—	75Ω terminator plug	All 75Ω coax cables	2.15	2.06	1.97

Universal Hand Crimp Tools

Amphenol Connex 47 series coax crimp tools utilize industry standard crimp die-set dimensions. Full ratchet crimp action assures complete crimp before release.



667850

Part No.	Product No.	Crimp Tool	Die Cavities (in.)	Cable Groups	1	5
667850	47-10070	A	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400 (for BNC/TNC connectors)	$59.99	$57.99
667905	47-10150	B	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196 (for BNC/TNC connectors)	54.65	52.84
667921	47-10180	C	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors (for BNC/TNC/N connectors)	45.65	42.75

Over 99% of Our Catalog Products Are In Stock

Place your order by 6PM EST for same business-day shipment.

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Amphenol Connex Type N Connectors 50Ω

* Crimp tools for these connectors are on page 111

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296454	172100	1	C	Straight crimp plug captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	$3.79	$3.45	$3.42
296471	172102H243	1	—	Straight crimp plug captive contact	RG-B9913/LMR400/B7810A/B8214	4.45	4.19	3.97
659286	172122	2	—	Plug-to-plug adapter	All 50Ω coax cables	6.75	6.15	5.61
659294	172123	3	—	Jack-to-jack adapter	All 50Ω coax cables	4.45	4.10	3.90
659307	172124	4	—	Bulkhead jack-tojack adapter	—	6.05	5.80	5.54
659315	172126	5	—	Angled plug-to-jack adapter	—	7.69	7.45	7.26
296577	172142	1	C	Straight crimp plug captive contact	RG-55/142/223/400	4.55	4.26	4.11
296585	172165	6	B	Bulkhead crimp jack captive contact	RG-316/U double braided	7.09	6.85	6.65


Fig. 1 Fig. 2 Fig. 3


Fig. 4 Fig. 5 Fig. 6

Amphenol Connex TNC Connectors 50Ω/75Ω

* Crimp tools for these connectors are on page 111

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296163	122372	7	A	50Ω straight crimp plug	RG-55/142/223/400	$1.47	$1.41	$1.35
296219	122426	7	A	75Ω straight crimp plug	RG-59/U 20 AWG./B9108/B1515/B9104	1.85	1.79	1.76


Fig. 7 Fig. 8

Amphenol Connex SMB Connectors 50Ω

* Crimp tools for these connectors are on page 111

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296411	142176	8	—	Right angle cable plug	RG-316U double braided	$5.15	$4.87	$4.63
296446	142194	8	B	Right angle cable plug	RG-174/188A/316/B7805A	5.05	4.68	4.29
296438	142255	9	A	Straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	4.59	4.38	4.17


Fig. 9 Fig. 10 Fig. 11

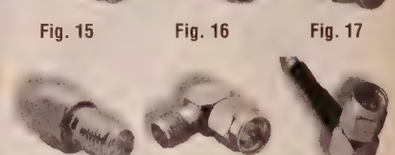
Amphenol Connex SMA Connectors 50Ω

* Crimp tools for these connectors are on page 111

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296227	132101	10	—	Straight cable plug w/ contact, 0.085 semi-rigid	RG-405U	$2.79	$2.34	$2.15
296331	132119	11	B	Bulkhead crimp jack	RG-174/188A/316/B7805A	5.29	4.53	4.15
296374	132134	12	—	Straight jack, PCB terminals	All 50Ω coax cables	3.89	3.69	3.57
659016	132137	13	—	Bulkhead jack receptacle, solder terminal	—	4.79	4.61	4.40
296382	132146	14	—	Panel mnt jack receptacle, 4-hole sq. flange	—	6.49	6.36	5.93
659032	132168	15	—	Plug-to-plug adapter	All 50Ω coax cables	5.19	4.56	4.18
659041	132169	16	—	Jack-to-jack adapter	All 50Ω coax cables	4.39	3.72	3.41
659059	132170	17	—	Jack-to-jack adapter, bulkhead feedthrough	—	6.19	5.89	5.56
659067	132171	18	—	Plug-to-jack adapter	All 50Ω coax cables	4.85	4.64	4.41
659075	132172	19	—	Right angle plug-to-jack adapter	All 50Ω coax cables	7.59	6.77	6.19
296391	132178	20	—	Straight crimp plug	RG-316U double braided	3.35	3.19	3.05


Fig. 12 Fig. 13 Fig. 14


Fig. 15 Fig. 16 Fig. 17


Fig. 18 Fig. 19 Fig. 20

AMP SMA Connectors, Adapters and Accessories

NEW

✳ Minimum order 10 pieces

Part No.	Prod. No.	Description	1	10	100
739315	1053354-1	SMA jack, vertical PCB	$10.85	$9.02	$8.33
896257	1054869-1	SMA in-series adapter, jack-to-jack, bulkhead, feedthrough	24.19	22.99	20.76
739391	1055687-1	SMA plug, straight	2.25	1.74	1.43
739446	1058117-1	BNC-SMA jack-to-jack adapter	36.89	31.65	30.59
740914	1-329631-2	Jam nut	✳	.167	.157


739315 896257 739391 739446 740914

Finding the Needle in the Haystack



Remember the adage about doing it right the first time? If you try to take short-cuts, particularly with mechanical connections, the consequences can far outweigh the initial time savings.

So when you're crimping cables, and especially when you're crimping coax, make sure you use the right crimping tool! All it takes is one intermittent connection and you'll use all the time you ever saved, plus a whole lot more! (I'd prefer to find the needle in a haystack!) Make sure you invest now – it's not worth the cost later.

Practical Practices
Money Saving Tips for the Engineer

Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at



www.Jameco.com

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional RF Connectors & Cables are available online at www.Jameco.com/Interconnect

We carry major manufacturers – call or visit our website.

75Ω "F" Connectors, Adapters and Terminators

JAMECO EXCLUSIVE


291531


309657


291725

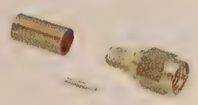

295371


295380

Part No.	Cross Ref. No.	Description	1	10	50	100
291531	200-028⊕	Perma-seal, RG-6 coax	$.77	$.70	$.59	$.461
309657	200-045	RCA female to F male adapter	1.75	1.35	.97	.87
291725	200-051⊕	F-jack to jack (gold)	1.14	1.02	.95	.90
295371	200-053⊕	F-panel mount jack to jack (nickel)	.65	.55	.475	.38
295380	200-107⊕	F-right angle jack to plug (nickel)	2.19	1.78	1.52	1.23

SMA Connectors, Couplers and Adapters

JAMECO EXCLUSIVE


157972


153366/355304


145382


153285


159531

- Application: cellular phone, data communication, instrumentation and video
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C
- 50Ω impedance
- Plating: gold and nickel

✪ Blue Part No. = Limited Quantity Available


160022


160013


355283

Connectors

Part No.	Cross Ref. No.	Description	Cable Type	Plated	1	10	50
157972	19-03F-4TGG⊕	SMA 50Ω crimp type **M** plug connector	RG-58	Gold	$4.75	$4.03	$3.03
153366	4804	SMA 50Ω crimp type **M** plug connector	RG-174	Gold	4.39	3.95	3.55
145382	19-46G	SMA straight **F** PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25
153285	SMA-7813⊕✪	SMA bulkhead solder **F** w/ washer, rear mount	RG-58/174	Gold	3.49	3.29	2.99
159531	CH-7814	SMA **F** panel mount conn., 4 mounting holes*	RG-58/174	Gold	2.95	2.65	2.35
160022	CH-7815-G	SMA **F** panel mount conn., 2 mounting holes*	RG-58/174	Gold	4.79	4.31	3.90
160013	CH-7818-N	Panel mount feed thru connector **F** – **F**	—	Nickel	4.99	4.49	3.99
355283	901-143-6RFX	50Ω SMA jack, right angle, PC mount	—	Gold	4.55	3.63	3.55
355304	901-9877-RFX	50Ω SMA plug, crimp (RG-174/U; RG-188A/U; RG-316/U cables)		Gold	2.55	2.40	1.80

*159531/160022: Solder cup

Couplers

JAMECO EXCLUSIVE


153294

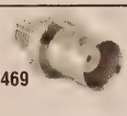

161294


161307

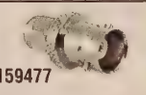
Part No.	Cross Ref. No.	Description	Plated	1	10	50	100
153294	SMA-7817	SMA straight coupler female – jack-to-jack	Gold	$3.85	$3.46	$2.77	$2.08
161293	S-311-G ⊕✪	SMA straight coupler male – male	Gold	4.25	3.83	3.44	3.20
161307	S-412-G	SMA right angle coupler male – female	Gold	5.99	5.39	4.79	4.38

SMA to BNC Adapters


153453


159469


153593


159477

Part No.	Cross Ref. No.	Description	Plated	1	10	50	100
153453	SB-321⊕✪	SMA female to BNC male adapter	Nickel	$2.59	$2.29	$2.09	$1.89
159469	CH-7830-N	SMA female to BNC female adapter	Nickel	3.09	2.82	2.52	2.29
153593	4288	SMA male to BNC male adapter	Nickel	4.55	4.09	3.65	3.29
159477	CH-7820-N	SMA male to BNC female adapter	Nickel	2.99	2.69	2.45	2.19

SMA/SMB 50Ω Coax Cables

JAMECO EXCLUSIVE

Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male
Fig. 3: SMA right angle male to SMA right angle male
Fig. 4: SMB plug to SMB plug

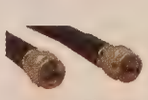
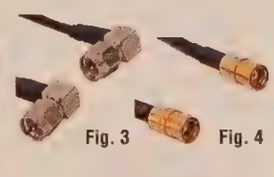

Fig. 1


Fig. 2


Fig. 3 Fig. 4

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370	RG-58⊕	1	2	$5.39	$4.58	$3.49
159397	RG-58	1	6	6.59	5.87	5.03
169801	RG-174	1	0.5	5.59	4.99	4.55
163855	RG-174	1	1	4.65	4.07	3.50
153382	RG-174	1	2	4.95	4.29	3.39
153391	RG-174	1	4	5.89	5.08	4.59

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159451	RG-174	1	6	$7.95	$7.20	$6.49
175127	RG-174	2	0.5	4.49	3.95	3.49
175135	RG-174	2	1	4.95	4.25	3.75
175143	RG-174	3	0.5	6.15	5.62	4.80
175152	RG-174	3	1	6.25	5.75	4.75
175178	RG-174	4	1	5.29	4.79	3.95

BNC Male Coax Cables


176794


181308

RG6 75Ω Cables

JAMECO EXCLUSIVE

Part No.	Description	1	10	50
176794	3' BNC to BNC	$3.95	$3.36	$2.52

RG58/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
181308	CRG58-1RR	1	$3.65	$3.29	$2.95
102315	CRG58-1	1.5	3.99	3.59	2.87
256743	CBB-224-24⊕	2	4.99	4.43	3.99
11404	CRG58-3	3	4.75	4.32	3.87
102331	CRG58-6	6	4.39	3.99	3.59
180822	CRG58-10⊕	10	5.85	5.19	4.16
102350	CRG58-12	12	4.95	4.49	3.99
169818	CRG58-15	15	7.15	6.44	5.60
102357	CRG58-25	25	7.79	7.01	6.32
102381	CRG58-100	100	16.19	14.57	11.66

Great Prices on Special Buys*

102365	CRG58-50	50	$13.29	$11.19	$10.15

*Manufacturer may vary

RG59/U 75Ω Cables

- For CATV and video patch cords


85543

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
86471	CRG59-1⊕	1.5	$3.95	$3.61	$3.38
85543	CRG59-6	6	5.89	5.30	3.98
102373	CRG59-12	12	5.99	5.40	4.85
262730	EBC-525	25	9.95	8.95	8.05
262748	EBC-550	50	17.05	15.35	12.28
262764	EBC-510	100	30.39	27.35	21.88

RG174/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
111473	RG174U3	3	$5.45	$4.93	$4.45
111482	RG174U6	6	5.79	5.25	4.74

Metric Double Row Terminal Blocks

- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- 12-18 AWG
- Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
- Insulation resistance: 1000MΩ or more at 500VDC

10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm



208873

Part Number	Cross Ref. No.	Poles	Dimensions A"	Dimensions B"	1	10	50
208873	GGE-10-8P	8	95	102.5	$1.69	$1.59	$1.49

20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm


207572

Part Number	Cross Ref. No.	Poles	Dimensions A"	Dimensions B"	1	10	50
207547	GGE-20-6P	6	76.3	85.3	$1.99	$1.79	$1.59
207563	GGE-20-10P	10	119.9	128.9	3.29	2.99	2.69
207572	GGE-20-12P	12	141.7	150.7	3.59	3.19	2.79

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Cinch Double Row Barrier Blocks


231378

- Voltage rating: 250VAC$_{RMS}$ max.
- Eyelet material: brass with nickel plating
- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel w/ nickel over copper flash plating
- Solder terminal material: brass w/ electro-tin plating

140 Series 15A

- 3750-watts/terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16" • Density: 0.375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973	2-140♻	2	1.41"	$.99	$.89	$.74
230981	3-140♻	3	1.78"	1.33	1.19	1.10
230990	4-140♻	4	2.16"	1.45	1.29	1.05
231010	6-140♻	6	2.91"	1.99	1.79	1.48
231028	7-140♻	7	3.28"	2.19	1.95	1.59
231036	8-140♻	8	3.66"	2.49	2.24	1.83
231052	10-140♻	10	4.41"	3.55	2.80	2.53
231061	12-140♻	12	5.16"	4.19	3.29	2.97
1775983	14-140♠	14	5.91"	5.09	4.56	4.03

141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max. • Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" • Density: 0.438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231378	4-141♻	4	2.50"	$1.79	$1.59	$1.19
231394	6-141♻	6	3.38"	2.35	2.01	1.71
231415	8-141♻	8	4.25"	2.89	2.34	2.27
231431	10-141♻	10	5.13"	3.35	2.70	2.62
231440	12-141♻	12	6.00"	3.95	3.53	3.18

142 Series 30A

- 7500-watts/terminal max.
- 10 AWG wire max. • Size: 1.312"W x 0.625"H
- Screw: 8-32 x 5/16" • Density: 0.563"

Part No.	Prod. No	Pos.	Length	1	10	100
440891	8-142	8	5.468"	$5.55	$5.32	$4.73
Double Row, Y-terminal						
1775991	5-142-Y♠	5	3.781"	$3.99	$3.59	$2.86

Cinch Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.



- 2-position
- Brass with nickel plating

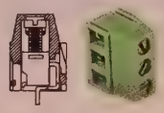
Part No.	Product No.	1	25	50
448500	141J (141 series)	$.28	$.248	$.238
448518	95B (142 series)	.85	.79	.73

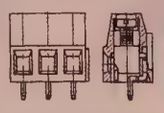
We're Listening to Your Requests

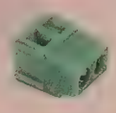
Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

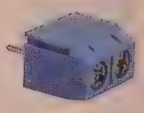
Terminal Blocks and Header

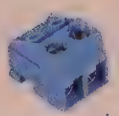
- For detailed specifications, please see our website at www.Jameco.com
- **164814**: Male header (.197") for use with 164794 and 164806


Fig. 1 (99398)


Fig.2 (160785)


Fig. 3 (161067)


Fig. 4 (189676)


Fig. 5 (164794)

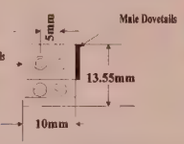



Fig. 6 (164806)


Fig. 7 (249084)

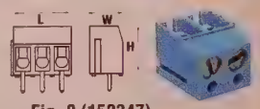


Fig. 8 (152347)


Fig. 9 (164814) use w/ Fig. 5 & 6

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
99427	Dinkle	DT128/2♻	1	2	0.197"/5mm	$.80	$.61	$.49	$.44
99398	Dinkle	DT128V3P♻	1	3	0.197"/5mm	.99	.89	.79	.59
160785	Dinkle	EK500V-02P♻	2	2	0.197"/5mm	.65	.55	.45	.39
160793	Dinkle	EK500V-03P♻	2	3	0.197"/5mm	.99	.91	.80	.74
161067	Dinkle	EK500A-02P♻	3	2	0.197"/5mm	.85	.74	.55	.44
161059	Dinkle	EK500A-03P♻	3	3	0.197"/5mm	1.14	1.02	.87	.82
189676	OST	EDC500/2DS♻	4	2	0.197"/5mm	.79	.71	.57	(43)
189668	OST	EDC500/3DS♻	4	3	0.197"/5mm	.89	.80	.64	(48)
164794	OST	EDC130/2DS♻	5	2	0.197"/5mm	.59	.53	.47	.42
164806	OST	EDC130/3DS	6	3	0.197"/5mm	.99	.90	.81	.61
249084	OST	EDZ750/3	7	3	0.200"/5.08mm	2.09	1.91	1.69	1.59
152347	OST	EDC120/2DS♻	8	2	0.200"/5.08mm	.65	.55	.45	.39
152355	OST	EDC120/3DS♻	8	3	0.200"/5.08mm	.47	.44	.39	.31
164814	OST	EDSTL130/24	9	24	0.197"/5mm	2.65	2.37	2.16	1.64

European Terminal Blocks

JAMECO ValuePro — JAMECO EXCLUSIVE


215011

- Number of poles: 12
- 1.2mm raised base
- Voltage: 600V
- Working temp.: 230°F (110°C)
- Terminal insert: brass metal alloy, nickel plated
- Material: Polyamide 66 (nylon 66), UL94V-2, natural
- Wire protector: stainless steel spring (DS)
- Screws: zinc plated, yellow chromed

Part No.	Cross Ref.	Amps	AWG	1	10	100
215011	PA8HDS♻	20A	12-22	$1.79	$1.59	$1.29
215029	PA10HDS♻	30A	10-22	2.45	2.19	1.81
215037	PA12HDS♻	35A	10-22	2.85	2.50	2.17

171-Pc. Solderless Terminal Kit

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	–
15	Ring term.	16-14	#6	10	Butt conn.	16-14	–
10	Ring term.	16-14	#8	5	Butt conn.	12-10	–

170 Terminals and Connectors!



- Clear, hinged plastic box
- Use crimping tool P/N 72996, right

Part No.	Description	1	10	25
10990	Terminal kit ♻	$8.95	$7.95	$7.25

Telecom Splice Connectors


169747

169755

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes
- **Prepackaged: please order in increments of 10**

169755: Y-type

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169747	Yellow♻	22–26	2	$.166	$.15	$.135
169755	Red♻	19–26	3Y	.155	.144	.12

Wire Connectors


182449

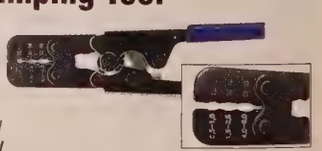

140717

- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Twist on type • Strip wire before application
- **182449:** nylon 66, 94-2 UL/CSA approved
- **140717:** PE - metal inside
- **Prepackaged: please order in increments of 10**

Part No.	Description	10	100	1000
182449	Crimp 16-14 AWG⊕ *	$.075	$.069	$.051
140717	Wire IDC 22-18 AWG♻	.15	.135	(.101)

* Requires crimping tool (P/N 72996, below)

Solderless Terminal Crimping Tool



- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W

Part No.	Product. No.	1	10	25
72996	HT303♻	$22.19	$18.85	$14.13

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals

Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with a copper sleeve fitted over the terminal barrel to provide maximum insulation support.

LOWER PRICES



- Temperature rating: 105°C
- Funnel ramp entry
- Meets MIL-T-7928

Ring Tongue Terminals

✳ Minimum order 10 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	Color	1	10	100
302666	36152	#6	22-16	Red	$.24	$.174	$.16
302674	31890	#8	22-16	Red	.21	.159	.141
302738	320565	#8	16-14	Blue	.20	.158	.119
302818	35110	1/4"	12-10	Yellow	.40	.39	.26
841942	31886♠	#8	22-16	Red	✳	.155	.147
841977	31887♠	#10	22-16	Red	✳	.174	.162
847092	35107♠	#6	12-10	Yellow	✳	.18	.162
847341	35273♠	1/4"	12-10	Yellow	.66	.426	.406
847527	36150♠	#6	22-16	Red	✳	.138	.123
847543	36151♠	#6	22-16	Red	✳	.107	.095
847560	36158♠	#6	16-14	Blue	✳	.156	.135
850443	51864♠	#6	16-14	Blue	✳	.135	.124
842056	320553♠	#4	22-16	Red	✳	.178	.134
842081	320554♠	#8	22-16	Red	✳	.156	.135
842179	320563♠	1/4"	16-14	Blue	✳	.156	.145
842224	320567♠	#6	12-10	Yellow	.65	.40	.381
842259	320569♠	1/4"	12-10	Yellow	✳	.199	.188
842283	320571♠	1/4"	22-16	Red	✳	.155	.144
842304	320573♠	3/8"	22-16	Red	✳	.176	.17
842339	320574♠	#10	16-14	Blue	✳	.135	.119
842398	320577♠	3/8"	12-10	Yellow	✳	.199	.188
842427	320634♠	#6	12-10	Yellow	✳	.197	.184
843008	324159♠	#4	16-14	Blue	✳	.182	.157
843091	324918♠	#10	12-10	Yellow	✳	.246	.231
843139	326875♠	#6	26-22	Yellow	✳	.138	.123
843198	326882♠	#6	16-14	Blue	✳	.156	.135
851112	53407-1♠	#6	22-16	Natural	.50	.45	.404
851171	53418-1♠	#10	16-14	Natural	.51	.459	.40

Tape and Reel Ring Tongue Terminals

836781	2-36154-2♠	#10	22-16	Red	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

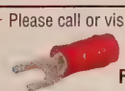


Fig. 1



Fig. 2

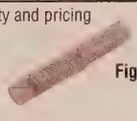


Fig. 3



Fig. 4

Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302851	328394	1	#2	22-16	Red	$.21	$.208	$.185
302869	327717	1	#4	22-16	Red	.24	.204	.153
302877	34541	1	#6	22-16	Red	.24	.173	.158
302885	32053	1	#8	22-16	Red	.29	.257	.232
302906	35559	1	#6	16-14	Blue	.26	.25	.194
302914	32059	1	#8	16-14	Blue	.28	.25	.20

Short Spring Spade Tongue Terminal

✳ Minimum order 10 pieces

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
850865	52924♠	2	#6	22-16	Yellow	✳	$.288	$.269

Butt & Knife Disconnect Splices

303175	320559	3	Butt	22-16	Red	$.43	$.396	$.324
303183	320562	4	Butt	16-14	Blue	.45	.43	.41

Fast-On Receptacles

Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	10	100
303255	640917-1	4	.187 x .020	22-18	Red	$.22	$.178	$.173
303280	640903-1	4	.250 x .032	22-18	Red	.22	.16	.13
303327	640905-1	4	.250 x .032	16-14	Blue	.23	.183	.181
303343	640907-1	4	.250 x .032	12-10	Yellow	.29	.273	.191

Tape and Reel Fast-On Receptacles

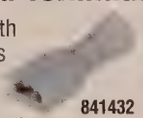
855922	640907-2♠4	.250 x .032	12-10	Yellow	★	Call/Web
855957	640917-2♠4	.187 x .020	22-18	Red	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

AMP Fast-On Insulated Terminals

- One-piece fully insulated fast-on receptacle/tab with insulation crimp prevents shock and short hazards
- Designed for full mating with a variety of tabs and receptacles including those with shoulders
- Funnel wire entry and wire stop
- Brass, tin-plated
- **Minimum order 10 pieces**



841432



848642

NEW

Ultra-Fast Fully Insulated Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Mating Tab Size	10	100
837118	2-520409-2♠	0.300"	22-18	Red	.020" x .187"	$.194	$.186
837134	2-520411-2♠	0.300"	22-18	Red	.032" x .187"	.175	.162
841432	3-520151-2♠	0.300"	16-14	Blue	.020" x .187"	.155	.147

Tape and Reel Ultra-Fast Fully Insulated Receptacle (0.187")

836975	2-520193-2♠*	0.300"	22-18	Red	.032" x .187"	★	Call/Web
837071	2-520401-2♠	0.300"	22-18	Red	.020" x .187"	★	Call/Web
837089	2-520403-2♠**	0.300"	22-18	Red	.032" x .187"	★	Call/Web

*Non-insulation support **Insulation support ★ Please call or visit our website for minimum order quantity and pricing

Ultra-Fast Fully Insulated Receptacle Assembly (0.250")

Quantity Save

Part No.	Product No.	Width	AWG	Color	Mating Tab Size	10	100
836959	2-520193-2	0.300"	22-18	Red	.032" x .250"	$.23	$.22

Ultra-Fast Fully Insulated Flag Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Mating Tab Size	10	100
836924	2-520129-2♠	0.373"	22-18	Red	.032" x .250"	$.223	$.206
841408	3-520133-2♠	0.373"	16-14	Blue	.032" x .250"	.233	.206

Fast-On Uninsulated Receptacle Assembly (.250")

848642	41729♠	0.373"	18-16	–	.032" x .250"	$.107	$.098

AMP Fast-On PCB Tab

LOWER PRICES



- Stock thickness: 0.032"
- Tin plated brass
- Board hole size: 0.055" dia.
- **Minimum order 10 pieces**

Part No.	Product No.	Description	10	100	500
853927	63824-1	0.250" tab (PCB)	$.051	$.047	$.045

AMP Plastic-Grip Insulated Terminals

Designed specifically to answer the need for inexpensive insulated electrical terminations. The wire and the terminal barrel form a homogeneous mass of metal, providing a connection of maximum conductivity, tensile strength and high resistance to corrosion.



Fig. 1

Fig. 2

Fig. 3

Ring Tongue Terminals (Fig. 1)

✳ Minimum order 5 pieces

Part No.	Product No.	Stud Size	AWG	Color	1	5	50
844684	34141♠	#4	22-16	Red	✳	$.16	$.15
844748	34144♠	#6	22-16	Red	✳	.155	.147
844772	34145♠	#8	22-16	Red	✳	.118	.11
844828	34148♠	#8	22-16	Red	✳	.107	.098
844852	34149♠	#10	22-16	Red	✳	.145	.137
844991	34161♠	#10	16-14	Blue	✳	.151	.144
845142	34852	#6	12-10	Yellow	.28	.261	.241
845177	34853♠	#8	12-10	Yellow	✳	.281	.255
845206	34854♠	#10	12-10	Yellow	✳	.27	.255

Tape and Reel Ring Tongue Terminals (Fig. 1)

836473	2-34149 -1♠	#10	22-16	Red	★	Call/Web
836570	2-34854-1♠	#10	12-10	Yellow	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

Short Spring Spade (Fig. 2)

Quantity Save ✳ Minimum order 10 pieces

Part No.	Product No.	Stud Size	AWG	Color	1	10	100
850929	5294-9	#6	22-16	Red	✳	$.188	$.141

Butt Splices (Fig. 3)

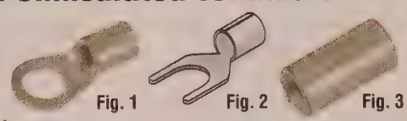
✳ Minimum order 10 pieces

Part No.	Product No.	AWG	Dimensions	1	10	100
844060	34067	22-16	1.065"L, 0.08-0.12" ID	$.29	$.26	$.195
844107	34070	22-16	1.076"L, 0.105-0.140" ID	✳	.135	.118
844140	34071	16-14	1.065"L, 0.115-0.170" ID	✳	.116	.108

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AMP Solistrand Uninsulated Terminals

Designed to terminate solid and stranded wire, irregular shaped conductors, and combinations of these – still retaining the superior performance and characteristics of single purpose terminals and splices. Corrosion resistant, vibration resistant and tensile strength of these terminals and splices are well within the limits of commercial military applications.


Fig. 1 Fig. 2 Fig. 3

Ring Tongue Terminals (Fig. 1)

✳ Minimum order 5 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
844220	34104	#4	22-16	✳	$.129	$.119
844289	34107	#6	22-16	✳	.151	.134
844318	34108	#8	22-16	✳	.129	.099
844377	34111	#8	22-16	✳	.129	.119
844406	34112	#10	22-16	.20	.155	.138
844342	34109 ♠	#10	22-16	✳	.097	.088
844422	34113	1/4"	22-16	✳	.125	.119
844457	34115	3/8"	22-16	✳	.136	.127
843462	32994 ♠	#8	12-10	✳	.291	.265
843665	33457 ♠	#10	12-10	✳	.136	.127
843690	33458 ♠	1/4"	12-10	✳	.34	.304
843631	33220 ♠	3/8"	12-10	✳	.349	.314
843737	33459	5/16"	12-10	✳	.349	.314
844570	34124 ♠	1/4"	16-14	✳	.116	.108
844254	34105 ♠	#6	8	✳	.107	.088
841862	31807 ♠	#10	8	.78	.75	.71
843788	33461 ♠	1/4"	8	✳	.252	.245
847316	35247 ♠	1/4"	8	✳	.378	.357
843841	33463 ♠	3/8"	8	.50	.456	.421
843876	33464 ♠	#10	6	.89	.81	.72
842486	321298 ♠	#10	6	✳	.353	.349
843905	33465 ♠	1/4"	6	✳	.301	.284
843956	33467 ♠	3/8"	6	✳	.407	.378
843921	33466	5/16"	6	✳	.378	.363
843606	33114 ♠	#10	4	.79	.68	.64
751314	31811 ♠	1/4"	4	1.09	.76	.71
843981	33469 ♠	1/4"	4	1.15	1.09	.97
844043	33471 ♠	3/8"	4	.73	.68	.62
844019	33470 ♠	5/16"	4	.63	.57	.53
842021	320383 ♠	1/4"	2	1.06	.98	.89
842558	321600 ♠	3/8"	2	1.08	.99	.90
842662	321871 ♠	3/8"	2	3.19	2.97	2.78
842890	322870 ♠	5/16"	2	.93	.85	.80
842574	321866 ♠	1/4"	1	2.59	2.35	2.20
847631	36919 ♠	1/2"	1	2.59	2.35	2.20

Spade Tongue Terminal (Fig. 2)

✳ Minimum order 10 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	1	10	100
842929	323127	#6	22-16	✳	$.129	$.119

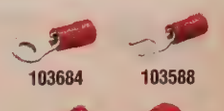
Butt Splices (Fig. 3)

✳ Minimum order 5 pieces

Part No.	Product No.	Wire (AWG)	Size	1	5	100
841889	31818 ♠	22-16	0.578"L x 0.141"Dia., 0.061" ID	✳	$.298	$.241
841918	31819 ♠	16-14	0.567"L x 0.165"Dia., 0.085" ID	✳	.126	.118
842515	32151 ♠	12-10	0.565"L x 0.165"Dia., 0.129" ID	✳	.155	.147
844609	34130	22-16	0.301"L x 0.141"Dia., 0.061" ID	✳	.108	.098
844633	34137	16-14	0.301"L x 0.165"Dia., 0.085" ID	✳	.109	.082
844668	34138 ♠	12-10	0.343"L x 0.226"Dia., 0.129" ID	✳	.101	.094
845126	34320 ♠	4	0.531"L x 0.463"Dia., 0.296" ID	.73	.70	.62
752237	36946 ♠	1	0.734"L x 0.613"Dia., 0.440" ID	1.85	1.73	1.54

Have you found a product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost!

Vinyl Insulated Solderless Terminals


103684 103588 103668 109112

- Insulation thickness: .030"
- Funnel ramp entry
- Temperature to 105°C
- Use with crimping tool P/N 72996, pg 114
- *Sold in increments of 10*

Quantity Save

Ring & Spade Solderless Terminals

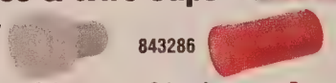
Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103684	Ring solderless	#6	22-16	Red	$.11	$.093	$.07
103588	Spade solderless	#6	22-16	Red	.119	.084	.07
103596	Spade solderless	#8	16-14	Blue	.132	.112	.084

Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106922	Female	.187"	22-16	Red	$.12	$.07	$.05
103668	Female	.25"	22-16	Red	.12	.07	.05
109112	Female w/ hood	.25"	22-16	Red	.204	.132	.066

AMP Closed End Splices & Wire Caps NEW

- Insulated
- Copper/tin
- Minimum order 5 pieces


847463/843358 843286

Part No.	Product No.	AWG	Description	Color	Crimp Area	5	100
847463	35653 ♠	22-10	Splice, non-insulation support (300V, 105°C)	Transparent	7.52mm Dia. max.	$.127	$.114
843358	328730	22-10	Splice, non-insulation support (600V, 105°C)	Transparent	6.86mm Dia. max.	.176	.157
843286	328307 ♠	22-18	Wire cap	Red	—	.224	.206

KEYSTONE Terminals


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8

PC Quick-Fit, Male

- Material: brass, tin plated

Minimum order 10 pieces

Part No.	Product No.	Fig.	Thick	Description	10	50
1581679	1211	1	32µ"	.110" straight solder	$.091	$.078
1581716	1267	1	20µ"	.110" straight solder	.036	.034
1581935	4906	2	32µ"	.110" right angle solder	.225	.156
1581687	1212	3	32µ"	.187" straight solder	.062	.058
1581724	1285	3	20µ"	.187" straight solder	.036	.034
1582372	1285-ST	4	20µ"	.187" straight solder	.085	.051
1581919	4900	5	20µ"	.187" straight solder	.111	.10
1581927	4904	2	20µ"	.187" right angle solder	.173	.156
1581708	1266	6	32µ"	.250" right angle solder	.11	.10
1581732	1287	3	32µ"	.250" straight solder	.038	.036
1582381	1287-ST	4	32µ"	.250" straight solder	.098	.081
1581741	1289	3	32µ"	.250" straight solder	.099	.089
1581943	4908	7	32µ"	.250" 30° solder	.22	.20
1581978	4966	2	32µ"	.250" right angle solder	.147	.089

PC Quick-Fit, Female

- Material: 16µ" brass, tin nickel plated
- Accepts: .250" x 32µ" male tab

Part No.	Product No.	Fig.	Thick	Description	1	10	100
1581847	3528	8	16µ"	.250" vertical solder	$.20	$.12	$.098

Screw Terminals

- Material: brass, tin plated
- Screw: 6 -32 x .250", brass, nickel plated
- Accepts: 14-20 AWG wire
- Rated 15A


1581695 1582292

Part No.	Product No.	Thick	Description	1	10	100
1581695	1248	—	PC Mt, off-set solder, captivated	$.31	$.28	$.21
1582241	7690	32µ"	Snap-in, horizontal, unassembled	.38	.356	.228
1582250	7693	32µ"	Snap-in, vertical, captivated	.32	.289	.257
1582268	8189	32µ"	PC Mt, 45°, unassembled	.65	.52	.48
1582276	8190	32µ"	PC Mt, horizontal, unassembled	.30	.277	.238
1582284	8191	32µ"	PC Mt, vertical, unassembled	.21	.189	.168
1582292	9189	32µ"	Snap-in, vertical, unassembled	.52	.48	.43

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Power Plugs and Jacks are available online at www.Jameco.com/Interconnect

AMP Strato-Therm/Diamond Grip Terminal

Insulated Ring Tongue Terminal



This insulated terminal is high-temperature circuit hardware. You'll find solutions to other more familiar circuit problems such as vibration, corrosion and flash-over, when they occur at high temperatures. Available in temperature ranges of up to 1200°F (649°C). Accomodates solid or stranded conductors.

Part No.	Product No.	Stud Size	Wire (AWG)	Color	1	10	100
842831	322338♠	#10	16-14	Orange	$2.29	$2.19	$1.89

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

molex Quick Disconnect PCB Mount Terminal



- Tab thickness: 0.032"
- Material: brass, tin plating
- With tab support

See page 209 for more PCB Terminals

Part No.	Product No.	Height	Tab Width (in.)	Minimum order 10 pieces 10	100	500
795464	19705-4101	0.560"	0.187	$.109	$.099	$.089

molex Insulkrimp® Solderless Terminal

Female Quick Disconnect



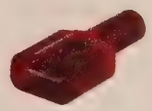
489643

- Designed for dense packaging requirements; the profile height is lower than other competing products on the market
- Translucent "see-through" insulator provides fast, on-line quality control inspection by allowing a quick visual check of the wire/terminal assembly
- Terminal's funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold back
- A wire stop stamped into the crimp barrel prevents insertion of over-stripped wires
- Material: brass • PVC insulation

Part No.	Product No.	AWG/Color	Tab Size (in.)	Minimum order 10 pieces 10	100	500
489643	19003-0017-C	18-22/Red	0.187 x 0.032	$.137	$.127	$.118

molex Avikrimp® Solderless Terminal

Male Quick Disconnect



The Avikrimp® version of the fully insulated quick disconnects gives you the extra advantage of the secure metal support sleeve. This part fulfills the double crimp (support) requirements of VDE and other DIN specifications.

Part No.	Product No.	AWG/Color	Length	Tab Size (in.)	1	10	100
743111	19001-0001	18-22/Red	0.960"	.250 x 0.032	$.53	$.48	$.38

molex Versakrimp™ Solderless Terminal

Ring Tongue



When the butted seam Krimptite barrel is bonded with a special brazing alloy, it becomes a Versakrimp barrel. This brazed-seam barrel terminal and splice will not open under conditions of stress or wire pull. As versatile as it is tough, it can be crimped under most adverse conditions by many types of tooling. The Versakrimp is ideal for hard-to-crimp solid and stranded wires.

- Material: copper

Part No.	Product No.	AWG	Stud Size	Width (in.)	Minimum order 10 pieces 10	100	500
795034	19193-0016	18-22	10	1.062	$.177	$.15	$.144

molex Fully Insulated Coupler



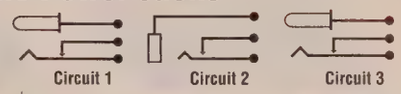
LOWER PRICES

This fully insulated nylon coupler is precision engineered, allowing the female terminal to fit precisely into the corresponding male housing, which provides a fully insulated inline splice. This splice may be connected and disconnected without damage to the nylon insulation.

Part No.	Product No.	AWG/Color	Tab Size (in.)	Minimum order 10 pieces 10	100	500
489766	19005-0005-C	14-16/Blue	0.250 x 0.032 female	$.126	$.111	$.091

Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel



Circuit 1 Circuit 2 Circuit 3

Terminals	Code
Solder eyelet	A
PC board	B

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F



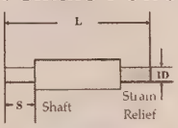
Type 1 Type 2 Type 3 Type 4 Type 5 Type 6 Type 7 Type 8

⊕ Blue Part No. = Limited Quantity Available

Part Number	Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing 1	10	100	1000
1.3 mm Male Jacks									
101194	PP024⊕⊕	6.0 x 6.0 x 9.0	6/D	1/B	1.3 mm F	$.62	$.48	$.44	$.36
2.1 mm Male Jacks									
101179	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm F	$.49	$.44	$.39	$.35
137673	PP013	10.9 x 9.0 x 14.5	3/D	3/A	2.1 mm F	.40	.36	.288	.216
151590	DPJ-02IA	13.0 x 12.6 Dia.	5/C	1/A	2.1 mm F	1.19	.99	.79	.69
151555	DPJ-026	15.1 x 8.0 Dia.	4/E	1/A	2.1 mm F	1.59	1.29	1.09	.89
159611	PJ1014A	35.8 x 12.6 Dia.	8/F	3/A	2.1 mm F	1.79	1.50	1.31	1.07
2.5 mm Male Jacks									
207714	HEC0470⊕	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm F	$.60	$.47	$.37	$.277
101186	PP014A⊕⊕	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm F	.78	.67	.515	.386
151563	DPJ-026A	15.1 x 8.0 Dia.	4/E	1/A	2.5 mm F	1.49	1.24	1.13	.99
159506	PJ1015A	35.8 x 12.6 Dia.	8/F	3/A	2.5 mm F	1.69	1.50	1.36	1.22
202358	HD2388⊕	17.0 x 12.0 Dia.	5/C	3/A	2.5 mm F	1.09	.98	.88	.79
3.5 mm Female Jacks									
109496	PJ035PM	10.5 x 9.0 x 8.8	2/C	2/A	3.5 mm M	$.53	$.472	$.425	$.378
165730	PJ0354	8.9 x 5.7 Dia.	7/C	3/A	3.5 mm M	.79	.67	.56	.45

Male & Female Power Plugs

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters, pgs 160-163
- Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280, pg 82, to make custom length power cables





Female (1) Male (2)



Strain Relief (A)



Female Right Angle (B)



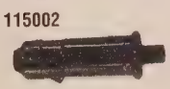
Hard Plastic Strain Relief (C)

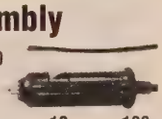
Part Number	Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S x L x ID (strain relief)	Type	Pricing 1	10	100	1000
Female Plugs					⊕⊕ Blue Part No. = Limited Quantity Available			
71192	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (blk)	1/A	$.95	$.86	$.78	$.71
191484	PP049W⊕	2.1 x 5.5	9.6 x 43.9 x 4.5 (wht)	1/A	.69	.62	.56	.50
28760	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (blk)	1/A	.71	.59	.468	.348
147329	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (blk)	1/A	1.09	.97	.88	.79
138587	PJ021R⊕	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (blk)	1/B	.89	.75	.65	.59
190538	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (blk)	1/A	.39	.32	.29	.248
28767	PP109⊕⊕	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (blk)	1/A	.63	.52	.42	.35
147336	PP109L⊕	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (blk)	1/A	.90	.82	.65	.492
168242	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (blk)	1/C	.65	.536	.471	.383
Male Plugs								
101135	PJ1025⊕	2.5 (P201)	11.1 x 49.0 x 4.3 (blk)	2/A	$.71	$.64	$.468	$.348
101152	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (blk)	2/A	.58	.45	.36	.27

Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Accepts .25" x 1.25" fuse

115002 124760





Part No.	Description	1	10	100
115002	W/ 5A/250VAC fuse	$2.35	$1.98	$1.43
124760	W/ 3A/250VAC fuse & 3' cord (pigtail end)	2.19	1.98	1.94

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Motors are available online at www.Jameco.com/Electromechanical

3VDC – 24VDC Motors

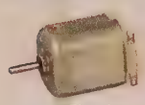
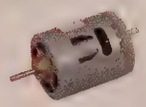
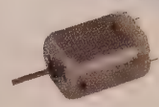
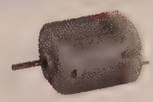

Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6

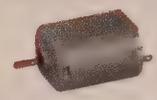
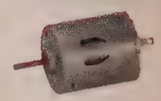

Fig. 7


Fig. 8


Fig. 9

TELCOMotion POWERING YOUR DESIGN | JOHNSON ELECTRIC | Nm MOTOR | star motor | MABUCHI MOTOR

Part No.	Product No.	Manufacturer	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency Current (Amps)	@ Maximum Efficiency Speed (RPM)	@ Maximum Efficiency Torque (g-cm)	Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (in.) (Dia. x Depth)	Pricing 1	Pricing 10	Pricing 100
154923	ST-130-22770	Star Motor	1	3	1.5-3	1.150	12500	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	$1.19	$1.07	$.80
177498	RC280RA-2485 ⊕	Mabuchi Motor	2	7.2	3-14	1.180	14260	33.3	57	0.11"/solder	0.08	0.43	0.95 x 1.20	2.05	1.83	1.65
174692	21226-384221 ⊕	Johnson Electric	3	12	9-14	0.015	3000	85.06	—	0.11"/solder	0.08	0.69	0.97 x 1.19	2.85	2.54	2.29
206949	QJT360S14280 ⊕	Nichibo	4	12	9-30	0.350	4930	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	2.15	1.83	1.37
667411	RF270RH-12370	Mabuchi Motor	5	12	6-15	0.140	5130	19.2	—	0.08"/quick conn.	0.08	0.59	0.96 x 1.21	1.59	1.39	1.04
1586031	FK-260SA	Mabuchi Motor	6	12	12-24	0.027	5800	14.8	—	0.08"/solder	0.08	0.42	0.96 x 1.06	1.59	1.39	1.25
1810099	FK-260SA (14280)	Mabuchi Motor	6	12	—	0.063	8600	—	—	0.08"/solder	0.08	0.43	0.96 x 1.06	1.75	1.59	1.39
1586058	FK130RH-10450	Mabuchi Motor	7	12	6-18	0.036	9750	8.9	—	0.08"/solder	0.08	0.31	0.80 x 0.99	2.59	2.29	1.95
1586023	RK370C	Mabuchi Motor	3	24	12-30	0.15	3850	19.3	—	0.08"/solder	0.08	0.67	0.96 x 1.21	2.59	2.29	1.99
267291	SUN-555A-LMRK ✪	Telco	8	24	—	0.150	4100	84	—	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.59	2.29	1.72
1586040	RS365PH-11240	Mabuchi Motor	9	24	9-28	0.070	10700	411	—	0.011"/solder	0.09	0.49	1.08 x 1.28	2.59	2.29	1.95

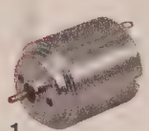
✪ Blue Part No. = Limited Quantity Available

2.5VDC – 12VDC Motors

JAMECO ReliaPro

Applications: • RC cars and airplanes • Arcade games • Vending machines • Office automation products • Tire pumps • Christmas trees • Motorized toys • Vacuum cleaners • Hair removers • Blow dryers • Paper shredders • Cordless power tools

Quantity Save


Fig. 1

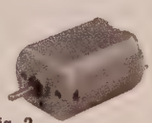
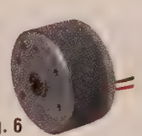

Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6

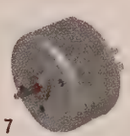

Fig. 7


Fig. 8

JAMECO EXCLUSIVE

Nichibo-Type

Part No.	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency Current (Amps)	@ Maximum Efficiency Speed (RPM)	@ Maximum Efficiency Torque (g-cm)	Efficiency	Terminal Type	Shaft Dia. (")	Shaft Length (")	Body Size (in) Dia. x Depth	Pricing 1	Pricing 10	Pricing 100
231909	FE-260-18130	1	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	$1.19	$1.01	$.76
232144	FF-050S-11170 ♻	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	3.05	2.58	1.94
231731	PC-130SF-09480 ⊕ ✪	2	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.78	1.33
231896	FE-260-08450	1	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.85
232022	MD5-1885 ♻	4	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.35	2.00	1.50
232047	MD5-2445 ⊕ ✪	4	12	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43

✪ Blue Part No. = Limited Quantity Available

Mabuchi-Type

238465	RF-310TA-11400 (CCW)	5	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.700	0.962 x 0.712	$2.99	$2.55	$1.91
238458	RF-300PA-11400 (CW) ♻	6	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.200	0.960 x 0.504	4.35	3.70	2.77
238511	RF-500TB-12560	7	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	3.82	2.86
238473	RF-370CA-15370	8	12	3-12	0.17	4840	187	—	Solder	0.078	0.346	0.960 x 1.213	5.55	4.72	3.54

JAMECO ReliaPro

1.3VDC & 3VDC Vibrating Motors

• Typical applications: cellular phones, pagers and toys

✪ Blue Part No. = Limited Quantity Available

JAMECO EXCLUSIVE

Quantity Save


Fig. 1


Fig. 2


Fig. 3

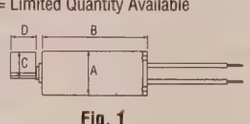


Fig. 1

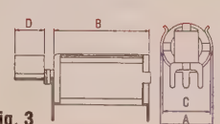


Fig. 3

Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) Dia." x Depth"	Shaft Size (C x D) Dia." x Length"	Pricing 1	Pricing 10	Pricing 100
175062	OTL-7AL ⊕	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	$5.49	$4.94	$3.67
256306	6ZK003 ♻	2	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.24
256365	7ZK692 ♻	2	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	3.95	2.96
256382	7ZK681 ♻	2	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	3.95	2.96
256314	6ZK053 ♻	2	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.80	2.10
256331	6ZK261 ♻	3	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC term.	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256090	4ZK091 ⊕ ✪	2	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

12VDC Reversible Gear Head Motors

- Solder-type terminal
- Oil bearing design for long service life
- High torque construction
- Dielectric strength: 300VDC
- Insulation resistance: 10MΩ

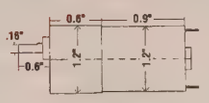
JAMECO EXCLUSIVE



159418

GH30GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10	50
170642	GH12-1828Y-10	12	6.0 – 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	$27.35	$23.22	$17.42
153438	GH12-1045Y	12	3.0 – 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	0.16 x 0.70	18.95	17.09	15.35
159418	GH12-1921Y	12	4.5 – 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	26.19	23.57	21.21
162191	GH12-1324Y225	12	4.5 – 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	0.16 x 0.70	17.79	16.01	14.44

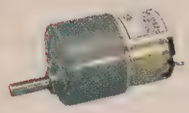


GH30GM Series

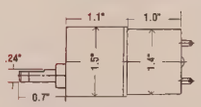
GH35GM Series

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10	50
155012	GH12-1926	12	4.5 – 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	$21.95	$19.79	$17.79
155821	GH12-1830Y-P	12	4.5 – 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.89	20.63	18.54
155839	GH12-1641T-L	12	3.0 – 12	250	20	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	25.35	22.85	20.59
152911	GH12-1926Y	12	4.5 – 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	23.89	21.50	19.32
151441	GH12-1632TI	12	4.5 – 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155854	GH12-1641T-F ⊕ ✪	12	3.0 – 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	23.49	21.29	19.29
155863	GH12-1926Y-F	12	4.5 – 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	23.99	21.99	19.99
161373	GH12-1345T ⊕ ✪	12	4.5 – 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	20.35	15.26
161382	GH12-1634T	12	4.5 – 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
164786	GH12-1640Y	12	4.5 – 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	31.79	27.01	20.26
176050	GH12-1640Y00	24	12 – 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	18.66	17.17
176032	GH24-1640Y06	24	12 – 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.75	21.37	19.21
176023	GH24-1640Y19	24	12 – 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	28.45	25.56	23.00



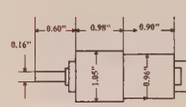
155012



GH35GM Series

HN27GD Series

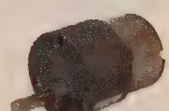
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10	50
167039	GH12-0953Y	12	4.5 – 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	0.16 x 0.60	$19.05	$17.10	$15.39
167047	GH12-1828Y	12	4.5 – 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	0.16 x 0.60	24.79	22.31	20.08



HN27GD Series



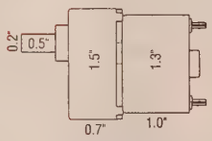
167039



253446

38GM Series

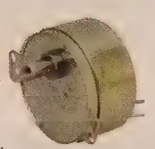
Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10	50
253534	38-010 ⊕	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	$21.85	$19.71	$17.70
253500	38-007 ⊕	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.79	18.52	17.59
253497	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	20.39	18.39	16.52
253472	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.89	19.75	17.75
253455	38-002	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253446	38-001 ⊕	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.69



38GM Series

120VAC Gear Motor

6.0 RPM - 2.9 Watt



Quantity Save

- Torque: >3.6 kg-cm
- Connector: 12" wires
- Shaft diameter: 0.27"
- Shaft length: 0.65"
- Operating voltage: 120VAC @ 60Hz
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor
- Size: 2.0" Dia. x 1.0" Thick

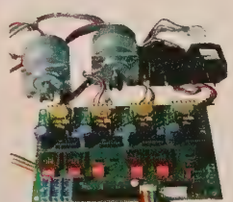
Part No.	Cross Ref. No.	1	10	100
213488	50TYZ	$19.75	$16.79	$12.59

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1-800-831-4242

Multi-Stepper Motor Control Board

RMV



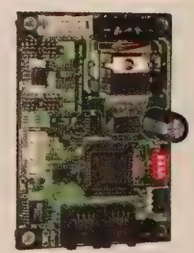
Shown w/ motors – not included

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec.
- High-speed serial communication interface 9.6kbps-230.4kbps
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- 26 digital I/O and two SPI interfaces for control of external devices
- Size: 7.7"L x 5.0"W x 1.0"H

Part No.	Description	1	10
168729	Stepper motor control brd	$399.95	$379.95

Sport232-ST One Axis Stepper Motor Controller/DAC Board

RMV



- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic)
- 8 digital I/O and 8 analog inputs with 12-bit resolution
- Free 32-bit DLL for Windows® 9x/NT/2000/XP, Linux and Labview

Part No.	Description	1	10
1537344	Sport232-STI	$247.99	$237.99

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: New Sale Lower$ QtySave

Additional Motors are available online at www.Jameco.com/Electromechanical

KAE — Industrial Motion Controllers for Brush, Brushless & Stepper Motors

323942: PIC-SERVO motor control board

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps



323942

323951: PIC-SERVO 3PH motor control board for brush or brushless motors

- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Support for linear & circular interpolation using the PIC-SERVO CMC chipset
- P/N 323951 Amplifier capable of driving 6A continuously @ up to 48VDC



323951

184997: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second



184997

Part No.	Description	Size	1	10
323942	KAE-T0VIO	3.1"L x 2.1"W x 0.9"H	$169.55	$152.59
323951	KAE-T0VIO	3.1"L x 3.1"W x 0.9"H	241.55	198.37
184997	PIC-STEP	3.1"L x 2.1"W x 0.9"H	159.95	143.95

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High-Efficiency Robotic Servo



Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Size: 0.8"W x 1.4"D x 1.6"H
- Torque: 49 oz.-in. (3500 g-cm) @ 4.8V
- Can be operated by P/N 151001, on web

Part No.	Description	1	10
157067	Robotic servo	$21.95	$19.95

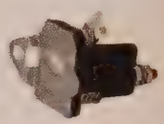
12VDC Solenoid Valve



- Operating voltage: 12VDC
- Dimensions: 1.2"L x 0.92" Dia.
- 0.250" quick disconnect terminals
- Operational temp.: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi • Current: 350mA

Part No.	Description	1	10	100
169835	Solenoid valve ℞	$8.05	$7.25	$6.48

12VDC Power Solenoid

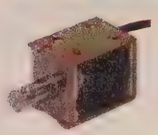


- 12VDC • 4Ω coil
- Handles a 225A load
- Intermittent 50% duty cycle
- 1/4-20 copper studs • 2.25" mounting centers
- Contractors power solenoid • Size: 1.86" x 3" base

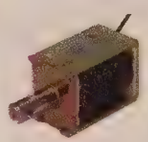
Part No.	Product No.	1	10	100
1585645	93285	$6.49	$5.85	$4.95

12VDC and 24VDC Continuous Push/Pull Solenoids

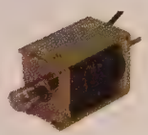
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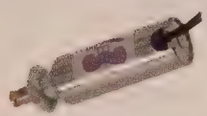
262263



262272



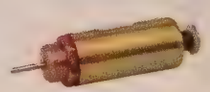
262167



142464



215141

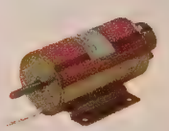


149754

Part No.	Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke (ins.)	Size L x Dia. (ins.)†	Shaft Dia. (ins.)	Wt. (lbs.)	Pricing 1	10	100
262247	SMO-0520L12STD℞	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	$11.49	$9.77	$7.33
262263	SMO-0837L12STD℞	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	9.95	8.46	6.35
262272	SMO-0837S12STD℞	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	10.09	9.11	8.22
262167	SMT-1325L12STD℞	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	13.75	11.69	8.77
142464	SMT-1130L12A℞	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	7.99	7.59	7.20
215141	SMT-2251L24AA⊕	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	11.99	10.98	10.39
149754	SMT-1325S12A℞	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	17.99	14.87	11.15
149762	SMT-1632S12A℞	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	12.35	11.13	8.35
262191	SMT-3257S24STD⊕	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	23.95	20.36	15.27



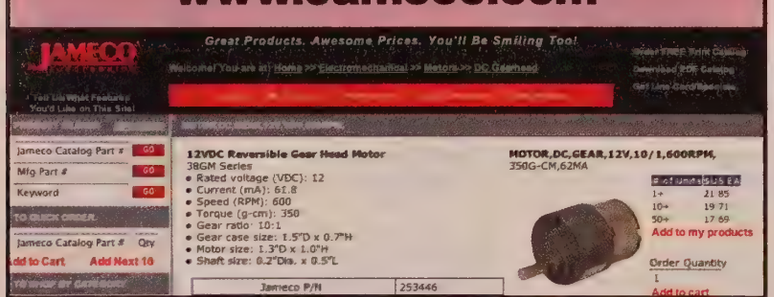
149762



262191

† Open frame type dimensions: L" x W" x H" * Dual shaft

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Steps Aside, You Can Save!



Designers today are forced to face many obstacles that didn't exist 10 - 20 years ago. Power-saving stand-by and sleep modes were necessary for flight equipment, but not nearly as common in traditional embedded systems.

Motors are now more efficient and produce significantly more torque/power per Watt consumed. But we still must balance power supply limitations with torque and precision requirements.

While not always considered as elegant as direct drive, gear-reduced power trains are often quite advantageous. Positioning accuracy can be improved to finer increments by simply changing the gear ratio. Torque will also improve based on the gear ratio. And since a smaller, less powerful motor can be used, power requirements are also reduced. You'll use less expensive motors and power supplies, plus you'll reduce heat dissipation.

Practical Practices
Money Saving Tips for the Engineer

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

JAMECO RellaPro

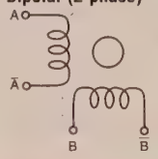
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JAMECO EXCLUSIVE — Quantity Save

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998, pg 203, for shaft coupler

Bipolar (2-phase)



Unipolar (4-phase)

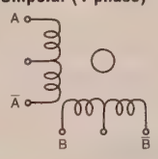
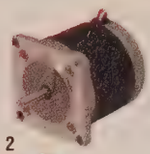
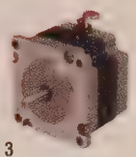



Fig. 1


Fig. 2


Fig. 3

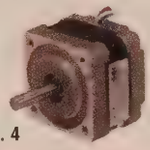

Fig. 4


Fig. 5

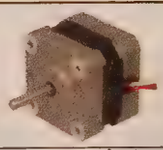

Fig. 6

Part No.	Cross Ref. No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing 1	10	50
237489	39BYG001⊕	1	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	$19.15	$16.26	$13.11
237577	57BYG061⊕✪	2	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	25.45	20.99
155459	42BYG023⊕✪*	1	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	21.55	19.55	17.51
237472	39BYG401Aℛ	1	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	21.45	19.33	17.39
237569	57BYG009⊕	2	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	33.89	28.82	21.61
237614	57BYGH801⊕	3	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.55	30.22	22.66
237535	42BYGH102ℛ	4	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	16.15	14.55
237552	57BYG008ℛ	2	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	35.79	30.42	22.81
237622	57BYGH802⊕	3	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	32.04	24.03
237607	57BYGH001ℛ	3	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	36.89	33.21	29.92
237825	25BY4801	5	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	8.59	7.13	6.62
237674	35BY48B06ℛ	6	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	9.35	8.42	7.56
223870	57BYG070⊕	2	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	52.45	44.57	33.42
237631	57BYGH803⊕	3	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	54.90	41.17
172646	42BYG205⊕	2	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	21.35	19.27	17.32
224021	42BYG016⊕✪	1	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	20.35	17.28	12.96
155433	42BYG228ℛ	1	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.55	18.64	16.70
237543	57BYG007ℛ	2	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	30.19	25.66	19.87
238538	42BYGH404ℛ	4	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	22.05	19.83	17.85
162027	57BYG084ℛ	2	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.65	32.09	28.87
173181	30BYJ02AHℛ**	5	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	15.35	13.03	9.76

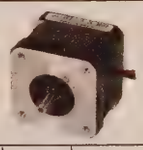
* **155459:** Dual shaft ** **173181:** Gear ratio 85.25:1 ✪ Blue Part No. = Limited Quantity Available

Great Prices on Special Buys*

1581231



454475

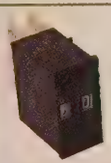


1585653



Part No.	Cross Ref. No.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Pricing 1	10	50
1581231	PX243M-01AAℛ	Bipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	$11.95	$10.95	$9.49
454475	41118S-62-07	Bipolar	24	1.8	0.6	2500	.93	—	3240	—	—	0.190	0.50	1.67	1.34	19.95	17.95	13.46
1585653	KP35FM2-044	Bipolar	24	1.8	—	500	7.8	90	700	1.45	0.09	0.197	0.90	1.62	1.05	10.95	10.49	8.95

*Manufacturer may vary



Pushbutton Binary Coded Decimal (BCD) Switch

26789 (2 switches shown)

JAMECO ValuePro

Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26818



JAMECO EXCLUSIVE

Pushbutton and Thumbwheel Switch Specifications:

- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max.
- Front snap-tab mounting w/ end plates
- Switches snap together

Part No.	Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing 1	10	50	100
26789	MX72ℛ	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	$6.85	$6.17	$4.93	$3.69
26818	MX83ℛ	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.69	4.14	3.72	3.34

JAMECO ValuePro

Mini Pushbutton BCD Switch

Quantity Save

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"

JAMECO EXCLUSIVE



Part No.	Cross Ref.	Description	1	10	100
136558	MX061ℛ	10-position ...	$3.79	$3.22	$2.42

ℛ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Switches are available online at www.Jameco.com/Electromechanical

Honeywell Limit & Enclosed Switches

Compact Enclosed Switch

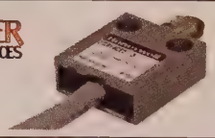


- Side mount • Installed w/ #6 screws
- Combination insulator/seal cemented inside the bottom enclosure
- Lead washers are used to seal the mounting holes on side mount switches

Part No.	Product No.	Description	Contact Rating	1	10	100
1846323	BZE6-2RN	With seal boot, SPDT, Side Mount	15A @ 125/250/480VAC; 2A @ 600VAC	$42.85	$34.39	$30.95

Miniature Pre-Wired Enclosed Switch

LOWER PRICES



- Zinc die cast housing
- Temperature range: -35°F to 180°F (-2°C to 71°C)
- UL/CSA/CE

Part No.	Product No.	Description	Contact Rating	1	10	100
1834509	914CE2-3	Roller plunger, SPDT	5A @ 240VAC; 3A @ 28VDC	$65.89	$64.49	$63.08

Honeywell Snap-In Basic Switch

LOWER PRICES



Panel Mount

- Quick connect terminals
- Expected mechanical life: 1 million cycles; 95% survival
- Temperature range: -35°F to 180°F (-32°C to 82°C)

Part No.	Product No.	Contact Form	Description	Contact Rating	1	10	100
1815658	1DM401	SPDT	Pull to cheat (white finger grip)	10A; 1/2HP 125/250/277VAC	$6.39	$4.73	$4.01

Honeywell Auxilliary Actuators

LOWER PRICES

1863140



Part No.	Product No.	Description	1	10	100
1863140	JS-5	Roller leaf, bronze roller, commercial type, 0.59"L	$4.45	$4.03	$3.57
1863060	JE-5	Roller leaf, industrial type, 0.56"L	11.85	10.76	8.54

For Honeywell Sensors see page 133.

Honeywell Standard Basic Switch

LOWER PRICES



Part No.	Product No.	Actuator Type	Form	Contact Contact Rating	Contact (Mech./Elec.)	Service Life Terminal Type	Pricing 1	10	100
1846067	BZ-2RW80-A2	Straight Lever (2.5"L)	SPDT	15A @ 125/250/480VAC	—	Screw Terminals	$10.65	$9.06	$7.73

Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H

OMRON
Honeywell



159572 159581 187805 1917099 1917259 1917267

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing 1	10	100
159572	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A @ 125VAC, 10A @ 250VAC	10M/100k	0.250" quick disconnect	$2.89	$2.54	$2.28
159581	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A @ 125VAC, 10A @ 250VAC	10M/100k	0.183" quick connect	2.45	2.08	1.71
187805	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A @ 125VAC, 10A @ 250VAC	50M/300k	0.183" quick connect	2.75	2.48	2.29
1917099	V7-1C17D8	Honeywell	Pin Plunger	SPDT	15.1A @ 125/250/277VAC	—	0.187" quick connect	2.59	2.36	2.24
1917259	V7-2B17D8-022	Honeywell	Staight lever (1.40"L)	SPDT	11A @ 125/250/277VAC	—	0.187" quick connect	2.59	2.32	1.99
1917267	V7-2B17D8-201	Honeywell	Roller Lever (0.81"L)	SPDT	11A @ 125/250/277VAC	—	0.187" quick connect	2.99	2.78	2.59

Subminiature Basic Switches

OMRON
Honeywell

- Economical, subminiature basic switch offers long service life
- Lead spacing: A = 0.35"; B= 0.29"
- Free from overtravel restrictions, permits easy setting
- Dimensions: 0.78"L x 0.25"W x 0.40"H

LOWER PRICES



Fig. 1 Fig. 2 Fig. 3 Fig. 4

Part No.	Product No.	Manufacturer	Fig.	Contact Actuator Type	Form	Service Life Contact Rating	(Mech./Elec.)	Terminal Type	Pricing 1	25	50
187709	SS-5GL	Omron	1	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	$1.59	$1.45	$1.29
187733	SS-5GL2	Omron	2	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.29	1.19	1.13
159599	SS0505A	Highly Electric	2	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.29	1.07	.96
1814276	11SX21-T	Honeywell	3	Pin Plunger	SPDT	5A @ 115VAC/250VAC	10M	Wrap around / solder	9.15	7.41	6.35
1816087	1SX1-T	Honeywell	3	Pin Plunger	SPDT	7A @ 28VDC; 7A @ 250VAC	1M	Wrap around / solder	9.65	8.19	7.25
1820060	4SX1-T	Honeywell	3	Pin Plunger	SPDT	7A @ 28VDC	10M	Wrap around / solder	11.95	10.77	10.17
1816482	21SM284	Honeywell	3	Pin Plunger	SPDT	5A @ 28VDC; 5A @ 115VAC	80k	Wrap around / solder	6.89	6.21	5.85
1814241	11SM3-T	Honeywell	3	Pin Plunger	SPDT	5A @ 28VDC; 5A @ 250VAC	10M	Wrap around / solder	3.75	3.27	2.79
1813863	111SM1-T	Honeywell	4	Intergral Leaf	SPDT	5A @ 28VDC; 5A @ 250VAC	10M	Wrap around / solder	5.95	5.31	4.54

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♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.(600V, 105°C)

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Pushbutton Switches are available online at www.Jameco.com/Electromechanical

JAMECO ValuePro

Pushbutton Switches

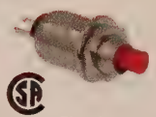
JAMECO EXCLUSIVE


Fig. 1


Fig. 2



Fig. 3


Fig. 4

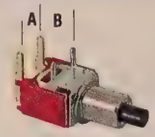


Fig. 5



Fig. 6

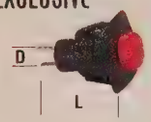


Fig. 7



Fig. 8



Fig. 9

Part No.	Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing A"	Lead Spacing B"	Contact Rating	Terminal Type	Button Color	Pricing 1	10	100	500	1000
315432	R13-23A-R⊕	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	$1.37	$1.23	$1.05	$.84	$.63
315484	R13-23B-R	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315599	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.35	1.23	1.10	.99	.93
26623	MS102	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.66	.60	.54	.42	.348
26649	MS103⊕	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.65	.57	.479	.388	.296
315643	R13-81-R⊕	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	1.49	1.36	1.23	1.10	.87
71643	SWB210	5	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.65	2.39	2.14	1.92	1.67
121305	CK8121	6	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28063	PB126	6	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
174414	R13-510A⊕	7	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69
Great Prices on Special Buys*																
154878	PS11-123	8	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	$1.79	$1.70	$1.61	$1.51	$1.43
22200	J1881	9	2*	3/8"	SPST on-off, Alt[1]	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.05	.98	.93	.88	.84
22218	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.05	.91	.81	.73	.65

*Lead wires [1] Alt = alternate action *Manufacturer may vary

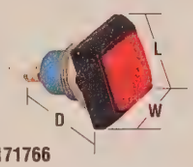
APEM

Pushbutton Switches

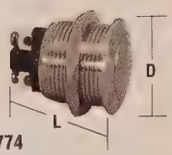
IP and AV Series Panel Mount Pushbutton Switches



171758



171766



171774

171758/171766: IP Series

- Initial contact resistance: 50mΩ max.
- Insulation resistance: 1GΩ min. @ 500VDC • Mounting hole: 1/2"Dia. • Dielectric strength: 1500V_{RMS} min. • Mechanical life: 1,000,000 cycles min.

171774: AV Series

- Initial contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min. • Mounting hole: 3/4"Dia. • Dielectric strength: 1000V_{RMS} min.

Part No.	Product No.	Pins	Type ( ) Momentary	Dimensions L	Dimensions W	Dimensions D	Lead Spacing	Contact Rating	Terminal Type	Pricing 1	10	100	250
171758	IPR3SAD2⊕	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	$10.89	$9.82	$8.87	$7.87
171766	IPC3SAD6⊕	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	14.79	13.35	12.17	10.70
171774	AV191003C900⊕	2	SPST off-(on)	1.20"	—	0.87"	0.37"	0.2A @ 48VDC	Screw	12.55	11.38	10.24	9.23

Mountain Switch

Pushbutton Switches

- 2-pin • Lead type: solder terminal • Contact rating: **164566/164639:** 0.5A @ 125VAC; **164582:** 1A @ 125VAC; **106112:** 3A @ 110VAC

Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing 1	10	100	500
164494	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	$2.19	$2.12	$2.03	$1.94
164486	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	2.89	2.38	2.17	1.97
164523	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	2.05	1.89	1.86	1.79


Fig. 1


Fig. 2


Fig. 3


Fig. 4

Standard Touch Switches

Part No.	Type Product No.	Lead Fig.	Thread ( ) Momentary	Button Dimensions	Spacing	Diameter	Color	Pricing 1	10	100	500
164566	MS402R	3	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	$1.23	$1.19	$1.15	$1.09
164582	DS016B	4	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.65	1.59	1.53	1.46
164639	MS3120R	5	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	1.65	1.49	1.34	1.26
106112	DS412R*	6	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.05	1.03	.99	.98


Fig. 5


Fig. 6

*Solder lugs

C&K

8020 Series Snap-Acting Momentary Pushbutton Switch

- Typical applications: instrumentation, computer peripherals, telecommunications equipment • Positive tactile feel
- Contact form: SPDT ON-MOM • Plunger height: 0.218" • Length: 1.03"
- Electrical life: 60,000 make and break cycles @ full load • Dielectric strength: 1,000V_{RMS}
- Contact resistance: below 50mΩ typical initial @ 2-4VDC, 100mA • Insulation resistance: 1,000MΩ min.

NEW



Includes: Nut, locking ring & lockwasher

Part No.	Product No.	Contact Rating	Contact Plating	Bushing	Terminal	Description	1	10	100	500
596799	U811SH2GE	1A @ 120VAC/28VDC	Gold over silver	0.250"H, flat	Solder lug	Standard plunger, SPDT ON-MOM	$11.09	$9.04	$7.16	$5.37

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

CHERRY E Series Panel Mount Pushbutton Switches

- Snap-in panel mounting
- Flammability rating: UL94V-0
- Long life coil spring, snap-action mechanism
- Temp. rating: -40°C to 85°C
- Case: thermoplastic polyester
- Actuating button: thermoplastic acetal
- Terminals: brass, 0.197" quick connect
- Moving blade: berryllium copper
- Spring: stainless steel



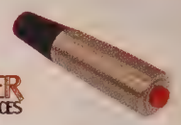
Part No.	Prod. No.	Description	Contact Form	Contact Rating	Contacts	Pricing 1	10	50
1720114	E68-30A♠	Momentary	SPDT	0.1A @ 125VAC	Gold crosspoint	$5.65	$4.20	$4.09
1720131	E69-00A♠	Basic Momentary	SPDT	10A @ 250VAC	Silver alloy	3.09	2.90	2.69
1720229	E79-30A♠	Momentary	DPDT	10A @ 250VAC	Silver cadmium oxide	6.55	6.33	6.07

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

Switchcraft® Cord-Switch®

- Maximum cable side diameter: .375"
- Copper alloy plated housing and switch bushing
- Plastic insulation

LOWER PRICES



Part No.	Product No.	Description	1	10	25
297502	ED903 ℞	Cord-switch	$11.29	$10.54	$10.35

Over 99% of Our Catalog Products Are In Stock

Place your order by 6PM EST for same business-day shipment.

Standard Toggle Switches

JAMECO EXCLUSIVE

- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate

Quantity Save



3-pin



2-pin or 4-pin

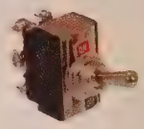


6-pin



Fig. 1


Fig. 2


Fig. 3

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing A"	B"	C"	Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing 1	10	100	500	1000
76241	SWM128⊕	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	$1.79	$1.61	$1.37	$1.10	$.82
76232	SWM125⊕	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	2.25	2.00	1.86	1.68	1.26
318002	R13-28A-01℞	3	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.19	1.95	1.55	1.34	1.10
318123	R13-28D-01	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.29	2.94	2.50	2.00	1.67
318141	R13-28D-06℞	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	3.35	3.02	2.57	2.06	1.55
158060	JKN32⊕	1	4	SPDT on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.38	1.26	1.14	1.02	.92
76260	SWM126⊕	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.59	1.43	1.30	1.17	1.05
158078	JKN3CC⊕	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.75
318043	R13-28B-01⊕	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	4.29	3.86	3.28	2.62	1.97
318051	R13-28B-05⊕	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	4.29	3.86	3.28	2.62	1.97

Miniature Toggle Switches

- Mounting hole diameter: 1/4"

✪ Blue Part No. = Limited Quantity Available

Includes: Mounting hardware

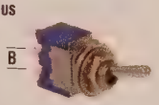


Fig. 1

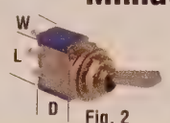


Fig. 2

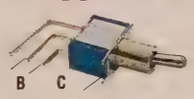


Fig. 3


Fig. 4


Fig. 5



Fig. 6

Part No.	Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Dimensions L" x W" x D"	Lead Spacing A"	B"	C"	Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing 1	10	100	500	1000
76523	JMT113⊕	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	$1.38	$1.24	$1.12	$.90	$.78
21936	JMT123⊕	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.19	1.05	.81	.70
21910	JMT121⊕	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.71
22832	LFH123⊕✪	2	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.45	1.31	1.19	1.06	.94
75854	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.40	1.25	1.13	.83
75889	SWM129⊕	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	2.09	2.04	1.71	1.20	.90
26332	MPC123℞	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315	MPC121⊕	1	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.75
71597	SWM148⊕	3	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.29	1.19	.99	.79	.59
75871	SWM145	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
22841	LFH221⊕	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.82
21979	JMT223⊕	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859	LFH223⊕	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.55	1.40	1.19	.95	.89
75900	SWM133⊕	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.79	1.61	1.37	1.10	.82
21952	JMT221⊕	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.37	1.17	.93	.75
75951	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	1.00	.75
26367	MPC223℞	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.35	1.22	1.13	.89	.81
26358	MPC221⊕	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.95	1.76	1.50	1.20	.90
Great Prices on Special Buys*																
1585506	7201L1YZTME	1	6	DPDT on-on	.50 x .45 x .35	—	.135	—	5 @ 120 & 2 @ 250	Solder lugs	Round	$1.65	$1.48	$1.26	$1.01	$.75

*Manufacturer may vary

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Switches are available online at www.Jameco.com/Electromechanical

Subminiature Toggle Switches

JAMECO ValuePro

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware

JAMECO EXCLUSIVE

Quantity Save



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing A"	Lead Spacing B"	Contact Rating	Lead Type	Lever Type	Pricing 1	10	100	500	1000
106068	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	$2.39	$2.15	$1.83	$1.48	$1.11
72161	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.31	1.29	1.25	1.20	.90
75969	SWM136⊕	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.69	1.52	1.29	1.04	.78
138907	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.55	1.26	1.02	.77	.58
75977	SWM137⊕	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.45	1.17	.94	.72	.54
Great Prices on Special Buys*															
1585493	ET012D1AVBE	4	3	SPDT on-on	.32 x .20 x .18	.10	—	20mA @ 20VDC/VAC	PC right angle	Round	$1.49	$1.39	$1.25	$1.10	$.95

*Manufacturer may vary

Honeywell TL Series Environment Sealed Toggle Switches

LOWER PRICES

- Screw terminals • UL recognized
- Temp. range: -85°F to 160°F (-65°C to 71°C)
- Electrical rating (resistive): 20A @ 28VDC/15A @ 115VAC/6A @ 230VAC except P/N **1817590:** 18A @ 28VDC/11A @ 115VAC/6A @ 230VAC


1817477 1817506 1817514 1817400 1817590

Part No.	Product No.	No. of Poles	No. of Positions	Keyway Position	Center Position	Opposite Keyway Position	Pricing 1	10	100
1817477	2TL1-2	2	2	Off	—	2-3, 5-6	$26.79	$20.90	$19.72
1817506	2TL1-3	2	2	1-2, 4-5	—	2-3, 5-6	26.45	20.61	19.72
1817514	2TL1-3D †	2	2	1-2, 4-5	—	2-3, 5-6	43.15	41.54	39.95
1817400	2TL1-1	2	3	1-2, 4-5	Off	2-3, 5-6	28.75	23.09	20.12
1817590	2TL1-7	2	3	(1-2, 4-5)	Off	(2-3, 5-6)	26.35	21.87	20.28

† Center locked out position, military equivalent MS24659-23D

Honeywell NT Series Sealed Toggle Switches

LOWER PRICES

- Screw terminals • UL recognized
- Temp. range: -40°C to 71°C (-40°F to 160°F)
- Electrical rating (resistive): **1815906/1815914:** 20A @ 28VDC/15A @ 115VAC/6A @ 230VAC; **1815949:** 15A @ 28VD/15A @ 115VAC/6A @ 230VAC; **1817291:** 18A @ 28VDC/11A @ 115VA /6A @ 230VAC


1815906 1815914 1815949 1817291

Part No.	Product No.	No. of Poles	No. of Positions	Keyway Position	Center Position	Opposite Keyway Position	Pricing 1	10	100
1815906	1NT1-2 ♠	1	2	Off	—	2-3	$15.35	$11.96	$10.75
1815914	1NT1-3	1	2	1-2	—	2-3	14.09	11.71	10.76
1815949	1NT1-7	1	3	(1-2)	Off	(2-3)	13.99	10.92	10.73
1817291	2NT1-7 ♠	2	3	(1-2, 4-5)	Off	(2-3, 5-6)	19.75	15.06	12.77

SPST Round Keylock Switches

JAMECO ValuePro

- Used in computer and other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" except P/N 106650 = 0.5"

196649: all keys are alike

Includes: Mounting nut

JAMECO EXCLUSIVE


106650



105832/196649

Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	50	100
106650	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	$4.35	$3.95	$3.47	$2.99
105832	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.15	3.73	3.42	3.11
196649	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.75	4.28	3.42	3.00

Slide Switch

JAMECO ValuePro

- Two mounting flanges
- 6/6 nylon plastic housing
- Top actuation
- Phenolic insulated
- Nylon actuator



UL

JAMECO EXCLUSIVE

Part No.	Pins	Type	Description	Housing Material	Dimensions L"	W"	D"	Lead Spacing A"	B"	Contact Rating	Lead Length	Actuator Height	Pricing 1	10	100	250
109171	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	$.31	$.26	$.23	$.19

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Switch Grab Bags

18235: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches

135378: 1 lb. (appox. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches


18235

Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235	GB165	0.4	$8.75	$7.69
135378	GB165LB	1.0	18.95	16.95

Electro Magnetic Counters

- Flanged face, panel mount
- Reset button and lock button
- Count up to 999,999 (6 digits)
- Dimensions: 2.0"W x 1.1"H x 2.5"D
- 8" wire
- Color: beige


1810064

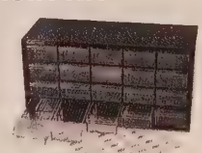

1810056

Part No.	Cross Ref. No.	Input Voltage	1	10
1810064	CNTR6-12VDC	12VDC	$37.85	$35.50
1810056	CNTR6-120VAC	120VAC	29.95	26.95

Switch Assortment Kit

Includes:

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 138 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523, 21936, 21910, 26332, 26315, 21979, 21952, 26367, 26358), pg 124
- 10 ea. slide switches (109171), below
- 10 ea. pushbutton switches (26623, 26649), pg 123
- 10 ea. DIP switches (38818, 38843), pg 126
- 10 ea. tactile switches (153252), above left





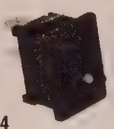
SAVE $47

Part No.	Description	Wt. (lbs.)	1	10
85059	150 pcs. switch kit	5.0	$118.75	$106.74

Rocker Switches

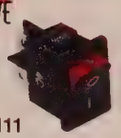
JAMECO ValuePro

- Rectangle rocker type
- Mounting type: panel mount
- Mounting hole: 0.78"L x 0.52"W
- Terminal type: 0.187" quick connect


316014


316022

JAMECO EXCLUSIVE


316111

Part No.	Cross Ref. No.	Pins	Type () Momentary	Contact Rating (A @ VAC)	Rocker Color	Lead Space A"	Lead Space B"	Dimensions (L"xW"xD")	Pricing 1	Pricing 10	Pricing 100
316014	R13-66A-B-02	2	SPST on-off	16 @ 125	Black top	0.31	—	.83 x .59 x .47	$.99	$.86	$.56
316022	R13-66A-R-02	2	SPST on-off	16 @ 125	Red top	0.31	—	.83 x .59 x .47	.99	.86	.56
316111	R13-73A2-B-02	4	DPST on-off	10 @ 125	Black (I-O)	0.20	0.34	.83 x .59 x .87	1.69	1.58	1.42

Tactile Switches

JAMECO ValuePro

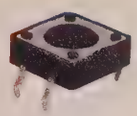

Fig. 1

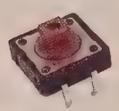


Fig. 2



Fig. 3


Fig. 4


Fig. 5

JAMECO EXCLUSIVE

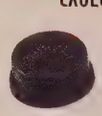

Fig. 6



Fig. 7

- Bounce time: 10 msec.
- Lead type: PC
- SPST momentary ON
- Contact resistance: 100mΩ

Part No.	Cross Ref. No.	Fig.	Pins	Dimensions (in.) L	W	D	C	Lead Spacing A"	B"	Contact Rating (mA @ VDC)	Button Color	Pricing 1	10	100	250
122973	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	$.26	$.23	$.19	$.17
119010	KTIIBICM ⊕ ✪	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.22	.20
149948	KT11P4CM ⊕	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	.26	.23	.21	.19
153252	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.18
155249	KRS-3550-BK	4	2	.24	.14	.15	—	—	.27	50 @ 12	Black	.27	.22	.20	.16
155380	KRS-1273B ♦	5	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

♦ See switch caps below ✪ Blue Part No. = Limited Quantity Available

Tactile Switch Caps♦

Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155409	KRS-CAP-B	6	Round	.50"Dia. x .25"H	Plastic	P/N 155380	$.16	$.14	$.105

Great Prices on Special Buys*

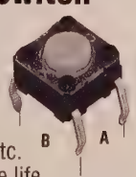
Part No.	Cross Ref. No.	Fig.	Pins	Dimensions (in.) L	W	D	C	Lead Spacing A"	B"	Contact Rating (mA @ VDC)	Button Color	Pricing 1	10	100	250
199726	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	$.29	$.23	$.21	$.15
1586074	EVQ-PAG04K	2	4	.24	.24	.14	.05	.17	.26	20 @ 12	Black	.23	.21	.18	.16

*Manufacturer may vary

B3F Series Miniature Tactile Key Switch

OMRON

- Low profile and easy mounting
- Lead spacing: A = 0.18"; B = 0.26"
- Operating force: high-force 260g
- Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.
- Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Dimensions: 4.3 mm x 6.5 mm



Part No.	Type	1	25	50	100
162886	B3F-1000	$.45	$.40	$.36	$.33

Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST


164081

171872: • 500mA @ 100VDC
- Size: 0.53"L x 0.1"Dia.

164081: 1A @ 250VAC; 1A @ 50VDC
- Size: 1.43"L x 0.2"Dia.

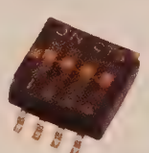
Part No.	Cross Ref. No.	1	10	100	1000
171872	MKA14103	$.79	$.64	$.46	$.41
164081	MRS1	.62	.53	.38	.33

SMT DIP Switch

CTS

Series 218

- SPST • Bottom seal/top tape seal
- Contact resistance: 100mΩ initial
- Insulation resistance: 1000MΩ (min.) across open switch & between adjacent closed switch
- Dielectric strength: 300VAC for 1 min.
- Non-switching rating: 100mA or 50VDC max.
- Gold plated beryllium copper contacts, gold flash coated terminals
- 4-position • Length: 0.246"

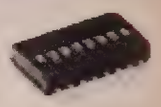


NEW

Part No.	Product No.	1	10	100
859632	218-4LPST ♠	$1.85	$1.49	$1.32

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

Alcoswitch SMT DIP Switch

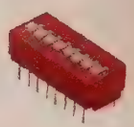


- Base/cover: PPS, UL94V-0
- Actuator: LCP, UL94V-0
- Life cycle: 1,000 cycles
- Dielectric strength: 300VAC
- Contacts and terminals: copper alloy, gold over nickel plating • Insulation resistance: 100mΩ min.
- Contact rating: 100mA @ 5VDC (non switching); 25mA @ 24VDC (switching) • Length: 0.444"
- Contact resistance: 100mΩ max. • Pos.: 8

Part No.	Product No.	1	10	100
835972	GDH08S04 ♠	$3.69	$3.45	$3.25

DIP Switch

GC ELECTRONICS



- Standard profile
- 2A @ 5VDC or 25mA @ 25VDC

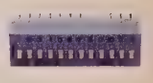
Part No.	Product No.	Pos.	Length	1	10	50
617916	35-968	8	0.88" ..	$2.35	$2.16	$2.03

DIP Switches

JAMECO ValuePro


139002


139012


38801

- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing • Pre-tinned leads

JAMECO EXCLUSIVE


38843

Compatible Socket Chart, see page 109 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109059	112193	38827	37162	38801	39378
38820	51571	38843	37373	38834	37162
139003	51571	139012	37373	38797	38608
109057	112193	139002	51571		
38818	51571	38826	37162		
206359	51571	38798	38608		

Part No.	Cross Ref. No.	Pos.	Pricing 1	10	100	1000
109059	206-2	2	$.75	$.68	$.61	$.55
38820	206-4	4	.65	.59	.468	.351
139003	206-4LP ⊕	4	.79	.70	.55	.44
38827	206-6	6	1.09	.98	.78	.59
38842	206-8 ⊕ ✪	8	.89	.80	.72	.64
139012	206-8LP	8	.85	.76	.61	.47
38798	206-10 ⊕	10	.95	.86	.68	.59
38800	206-12 ⊕ ✪	12	1.05	.99	.93	.62

Great Prices on Special Buys*

Part No.	Cross Ref. No.	Pos.	1	10	100	1000
109057	206-2	2	$.69	$.62	$.56	$.48
206359	206-3	3	.65	.59	.51	.443
38818	206-4 ⊕	4	.48	.44	.40	.36
139002	206-4LP	4	.47	.441	.303	.262
38826	206-6	6	.88	.83	.57	.48
38834	206-7	7	.85	.710	.580	.520
38797	206-10	10	.87	.79	.62	.54

*Manufacturer may vary ✪ Blue Part No. = Limited Quantity Available

We're Listening to Your Requests

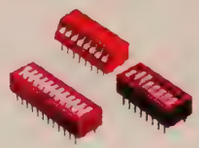
Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

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RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Switches are available online at www.Jameco.com/Electromechanical

Grayhill 76 Series Thru-Hole DIP Switches



- SPST rocker
- Spring ball contact
- Carrying current: 5A
- Dielectric strength: 500V$_{RMS}$

PSB – Piano DIP Style (UP is off), SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
788133	76PSB08T ♻ ♠	8	0.880	$1.39	$1.25	$1.14

Toggle DIP Style, SPDT

Part No.	Product No.	Position	Length (in.)	1	10	100
788328	76STC04T ♻ ♠	4	0.780	$5.15	$4.64	$4.25

Military Qualified, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
788088	76MSB10S ♠	10	1.080	$5.59	$5.06	$4.64

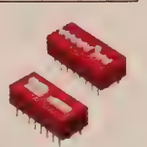
RSB – Raised Rocker Style, Sealed, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
788168	76RSB02ST ♻ ♠	2	0.280	$1.15	$1.05	$.96
788221	76RSB10ST ♻ ♠	10	1.080	1.55	1.40	1.29

SB – Raised Rocker Style, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
788248	76SB03T ♻ ♠	3	0.380	$1.19	$1.06	$.97
788256	76SB05T ♻ ♠	5	0.580	1.25	1.12	1.03

Grayhill 78 Series Thru-Hole DIP Switch



- Spring ball contact • Carrying current: 4A
- Dielectric strength: 500V$_{RMS}$

Raised Slide

Part No.	Product No.	Pos.	Description	Length (in.)	1	10	100
788387	78B12SRA ♻ ♠	12	SPST, right angle	1.280	$3.29	$2.97	$2.72

Alcoswitch Rotary DIP Switch

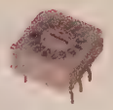


Thru-Hole

- Fixed contact/terminal: copper alloy, gold flash over nickel
- Moving contact: copper alloy, gold flash over nickel
- Insulation resistance: 1000mΩ @ 100VDC
- Rotor: PA6T UL94V-0, white • Contact rating: 0.4W @ 20VDC
- Contact resistance: 50mΩ max. • Dielectric strength: 300VAC
- Frame and case: PPS UL94V-0, black • Life expectancy: 10,000 rotations
- Code type: hex • Size: 0.394"W x 0.394"D x 0.236"H

Part No.	Product No.	Position	Adjust	1	10	100
1809389	DRD16CE04 ♻ ♠	16	Top	$5.39	$5.05	$4.79

Grayhill 94H Series Rotary DIP Switches



- Carry current: 100mA @ 50VDC
- Dielectric strength: 250V$_{RMS}$

NEW

Part No.	Cross Ref. No.	Pos.	Code Type	Description	Pricing 1	10	100
788521	94HAB08T ♻ ♠	8	Octal	Flush actuator, PC mount	$3.05	$2.75	$2.52
697071	94HAB10RAT ♻	10	BCD	Flush actuator, Thru-hole, Rt. Angle	3.05	2.91	2.85
788555	94HBB10T ♻	10	BCD	0.270" actuator, Thru-hole	3.09	2.81	2.58
788539	94HAB16WT ♻ ♠	16	HEX	0.270" actuator, surface mount	3.09	2.81	2.58

Jameco ValuePro Rotary Switches



101574

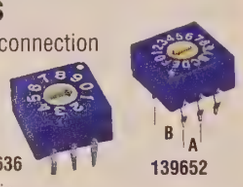
- Contact rating: 30VDC @ 0.3A • Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ • Lug size: 0.07" • Layers: 1
- Mounting hole diameter: 3/8" • Panel mount
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101566 – plastic casing)
- Make before break • Solder lugs

Includes: Washer and nut

JAMECO EXCLUSIVE Quantity Save

Part No.	Cross Ref. No.	Poles	Position	Shaft Size (L" x Dia.")	1	10	50
101532	RS0261 ♻	1	12	0.46 x 0.25	$1.29	$1.10	$.82
101574	RS022 ♻	2	6	0.46 x 0.25	1.35	1.15	.86
101566	RS023 ♻	3	4	1.16 x 0.25	1.95	1.59	1.20
101558	RS024 ♻	4	3	0.46 x 0.25	1.75	1.49	1.38

ECE Rotary DIP Switches

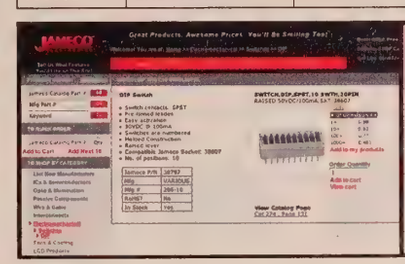


139636

139652

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction • Terminals: PC pin leads
- Life: 10,000 cycles min. • Op. force: 500g-cm max.
- Max. switching load rating: 25mA @ 24VDC
- Lead spacing: A = 0.1"; B = 0.3"
- Top adjustment • Size: .39"W x .39"D x .20"H
- Material: 94V-0 grade, UL approved fire retardant plastic

Part No.	Cross Ref. No.	Position	Code Type	1	10	50
139636	ERD110RS(DRD10) ♻	10	BCD	$2.79	$2.55	$2.29
139652	ERD116RS ♻	16	Hex	2.99	2.54	1.91



Our enhanced website offers thousands of additional products. Find products quickly and order them easily.

Jameco ValuePro 16-Button Numeric Keypad



- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H

JAMECO EXCLUSIVE

Part No.	Description	1	10	100
169245	Numeric keypad ♻	$8.79	$7.78	$7.00

Jameco ValuePro 12-Button Telephone Keypad

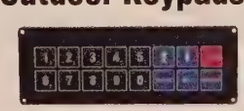


- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

JAMECO EXCLUSIVE

Part No.	Description	1	10	100
190562	Numeric keypad ♻	$8.75	$7.45	$5.59

16-Button Indoor/Outdoor Keypads



196171



152063

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Recommended connector: P/N 103191 header and P/N 100766 pin
- Size (housing): 4.7"W x 1.7"H x 0.4"T

✳ Prepackaged: please order in increments of 10

Part No.	Description	1	10	100
196171	2x8 matrix keypad	$16.95	$15.29	$13.75
152063	4x4 matrix keypad	14.95	13.49	11.95
103191	Header housing (10-pin) ♻	.42	.39	.36
100766	Header pin ♻	✳	.154	.121

Grayhill 16-Button Keypad Switch



- ½" button centers • Flange mounted
- Top surface or sub-surface mounting
- Voltage breakdown: 250VAC
- Contact resistance: 10Ω maximum (compatible with MOS, TTL, and DTL)
- Snap-dome contact provides positive feedback
- Rating @ 24VDC: 10mA resistive • 4" x 4" grid
- Life expectancy: 3,000,000 operations per button

Part No.	Product No.	1	10	100
302025	86BB2-006	$21.49	$19.95	$17.95

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Panasonic®

Signal Relays

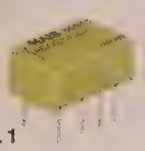

Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6

AGQ Series Low Signal Relay

LOWER PRICES

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A) 30VDC	Contact Rating (A) 125VAC	Pins	Dimensions (L" x W" x H")	Pricing	
760341	AGQ2004H♠	1A	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.28 x 0.21	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing

AGQ Series Low Signal Relay (SMD)

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A) 30VDC	Contact Rating (A) 125VAC	Pins	Dimensions (L" x W" x H")	Pricing 1	Pricing 25	Pricing 50
760368	AGQ200A03 ♻	2B	DPDT	3	64.2	46.7	1.0	0.3	8	0.42 x 0.28 x 0.21	$4.69	$4.25	$4.09

DS Series Low Signal Relays (High Sensitivity & Standard Coils)

760616	DS1E-S-DC5V ♻	3C	SPDT	5	125	—	2.0	2.0	5	0.59 x 0.39 x 0.37	$6.15	$5.93	$5.27
760595	DS1E-S-DC12V	3C	SPDT	12	720	—	2.0	2.0	5	0.59 x 0.39 x 0.37	6.15	5.93	5.27
842734	DS1E-M-DC12V ♻♠	3C	SPDT	12	360	—	2.0	2.0	5	0.59 x 0.39 x 0.37	4.35	3.96	3.61
842769	DS1E-M-DC24V ♻♠	3C	SPDT	24	1440	—	2.0	2.0	5	0.59 x 0.39 x 0.37	4.25	3.99	3.74
842849	DS2E-M-DC5V ♻	4D	DPDT	5	62.5	80	2.0	2.0	8	0.79 x 0.39 x 0.37	3.09	2.96	2.64
842953	DS2E-S-DC5V ♻	4D	DPDT	5	125	40	2.0	2.0	8	0.79 x 0.39 x 0.37	3.79	3.67	3.26
760691	DS2E-S-DC9V ♻	4D	DPDT	9	405	—	2.0	2.0	8	0.79 x 0.39 x 0.37	4.55	3.87	2.90
842793	DS2E-M-DC12V ♻	4D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	3.09	2.96	2.63
842902	DS2E-S-DC12V	4D	DPDT	12	720	16.6	2.0	2.0	8	0.79 x 0.39 x 0.37	3.79	3.69	3.26
842814	DS2E-M-DC24V ♻	4D	DPDT	24	1440	16.6	2.0	2.0	8	0.79 x 0.39 x 0.37	3.09	2.96	2.64
842937	DS2E-S-DC24V ♻♠	4D	DPDT	24	2880	8.3	2.0	2.0	8	0.79 x 0.39 x 0.37	3.85	3.67	3.27
843041	DS4E-S-DC12V	5E	4PDT	12	720	—	2.0	2.0	14	1.39 x 0.39 x 0.37	8.59	7.81	7.49

DS Series Dual Coil Latching Relay (High Sensitivity & Standard Coils)

842873	DS2E-ML2-DC12V	4F	DPDT	12	400	30	2.0	2.0	10	0.79 x 0.39 x 0.39	$3.69	$3.52	$3.13

DS2Y Series Low Signal Relay

842996	DS2Y-S-DC5V ♻	6G	DPDT	5	125	40	2.0	2.0	8	0.79 x 0.39 x 0.39	$2.55	$2.41	$2.14

TK Series Low Signal Relays

843366	TK1-5V ♻♠	7H	SPDT	5	178	28.1	2.0	0.5	6	0.42 x 0.35 x 0.16	$4.29	$3.99	$3.55
843331	TK1-12V ♻♠	7H	SPDT	12	1028	11.7	2.0	0.5	6	0.42 x 0.35 x 0.16	4.29	3.99	3.55

TN Series Low Signal Relays

843454	TN2-5V♠	8I	DPDT	5	178	28.1	1.0	0.5	8	0.55 x 0.22 x 0.39	$3.39	$3.20	$2.91
843391	TN2-12V♠	8I	DPDT	12	1028	11.7	1.0	0.5	8	0.55 x 0.22 x 0.39	3.69	3.53	3.03
843420	TN2-24V ♻♠	8I	DPDT	24	2880	8.3	1.0	0.5	8	0.55 x 0.22 x 0.39	3.85	3.44	3.26

TQ Series Low Signal Relays

761563	TQ2-3V ♻	9J	DPDT	3	64.3	46.7	1.0	0.5	10	0.55 x 0.35 x 0.20	$2.65	$2.38	$2.12
843542	TQ2SA-5V ♻♠	10K	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	2.85	2.74	2.44
843500	TQ2SA-12V ♻♠	10K	DPDT	12	1028	11.7	2.0	0.5	10	0.55 x 0.35 x 0.20	2.85	2.74	2.43

TQ Series Dual Coil Latching Relays

761660	TQ2-L-5V	9L	DPDT	5	125	40.0	1.0	0.5	10	0.55 x 0.35 x 0.20	$3.15	$2.84	$2.53
761686	TQ2-L2-24V ♻♠	9L	DPDT	24	1920	12.5	1.0	0.5	10	0.55 x 0.35 x 0.20	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

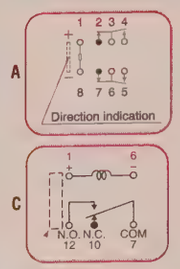
TX Series Low Signal Relays

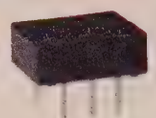
761871	TX2-L2-5V	11M	DPDT	3	64.3	46.7	1.0	—	10	0.59 x 0.29 x 0.32	$3.45	$3.29	$2.92
761846	TX2-4.5V	12N	DPDT	4.5	145	31.0	2.0	—	8	0.59 x 0.29 x 0.32	2.29	2.19	2.13

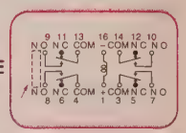
RK Series High Frequency Relay (1.5GHz)

843323	RK1-5V ♻	13O	SPDT	5	125	40.7	0.5	—	9	0.80 x 0.44 x 0.38	$9.15	$8.42	$7.49

Panasonic Power Relays on next page.




Fig. 7



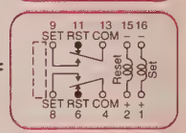
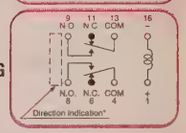
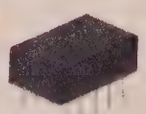



Fig. 8




Fig. 9



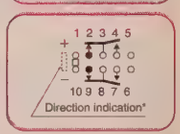
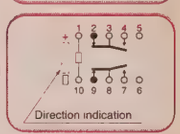
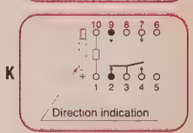
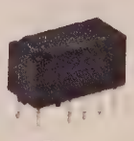
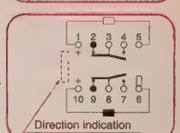


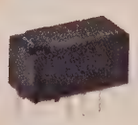

Fig. 10

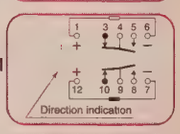


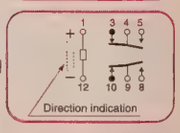


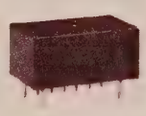

Fig. 11

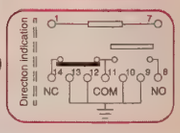



Fig. 12






Fig. 13



Lowest Price Guarantee

Have you found a product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost!

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Relays are available online at www.Jameco.com/Electromechanical

Panasonic®

Power Relays

LOWER PRICES

DSP Series General Purpose Relays

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A) 30VDC	Contact Rating (A) A@VAC	Pins	Dimensions (L" x W" x H")	Pricing 1	Pricing 25	Pricing 50
843075	DSP1-DC12V ♻♠	14P	DPST-NO/NC	12	480	25.0	5.0	5.0	6	0.79 x 0.43 x 0.41	★	Call	Call
843104	DSP1-DC24V♠	14P	DPST-NO/NC	24	1920	12.5	5.0	5.0	6	0.79 x 0.43 x 0.41	6.39	5.79	5.29

HC Series Miniature Power Relays

760798	HC2-H-DC12V ♻[1]	15Q	DPDT	12	160	75.0	—	7.0	8	1.07 x 0.82 x 1.38	$7.95	$7.28	$6.47
760894	HC4-HP-DC12V♠[2]	15R	4PDT	12	160	75.0	—	5.0	14	1.07 x 0.82 x 1.38	★	Call	Call
760851	HC4-H-AC24V[1]	15R	4PDT	24VAC	—	50.0	—	5.0	14	1.07 x 0.82 x 1.38	11.29	10.49	8.79

HL Series Space Saving Power Relay

760931	HL1-HTM-DC24V[3]	16S	SPDT	24	650	37.0	15A @ 125VAC		5	1.69 x 0.81 x 1.35	★	Call	Call

JQ Series High Noise Immunity Power Relay

761037	JQ1-5V♠	17T	SPDT	5	62.5	80.0	5.0	5.0	5	0.79 x 0.39 x 0.61	★	Call	Call

JS Series Power Relays

843155	JS1-5V	18U	SPDT	5	72	69.4	—	10.0	5	0.87 x 0.63 x 0.63	$1.16	$1.09	$.97
843121	JS1-24V	18U	SPDT	24	1600	15.0	—	10.0	5	0.87 x 0.63 x 0.63	1.25	1.18	1.05
761088	JS1-48V	18U	SPDT	48	6400	7.5	—	10.0	5	0.87 x 0.63 x 0.63	1.49	1.39	1.04

JW Series Power Relays

843201	JW1FSN-DC24V ♻	18V	SPDT	24	1100	22	10.0	10@250	5	1.13 x 0.50 x 0.79	$2.09	$1.89	$1.70
761336	JW2SN-DC5V ♻♠	19W	DPDT	5	47	106	5.0	5@250	6	1.13 x 0.50 x 0.79	2.29	2.09	1.86
843235	JW2SN-DC12V ♻	19W	DPDT	12	270	44	5.0	5@250	6	1.13 x 0.50 x 0.79	2.29	2.18	2.06
843260	JW2SN-DC24V ♻	19W	DPDT	24	1100	22	5.0	5@250	6	1.13 x 0.50 x 0.79	2.39	2.25	1.68

1 Plug-in 2 PCB terminal 3 Top-mount ★ Please call or visit our website for minimum order quantity and pricing

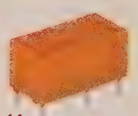

Fig. 14


Fig. 15


Fig. 16

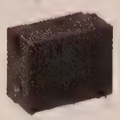
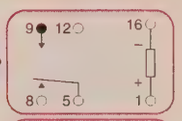
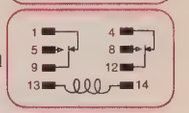
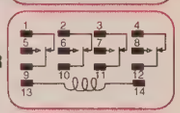

Fig. 17


Fig. 18

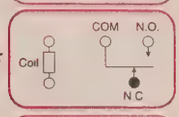

Fig. 19

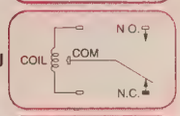


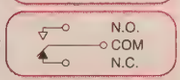


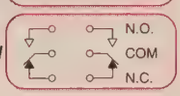










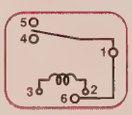


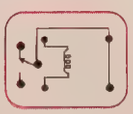
Small High-Current PC Mount Relays

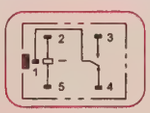
While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

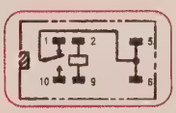
- Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
- Dielectric strength: 1500V_{RMS} (between contact and coil)

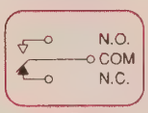
144186: For use with universal relay card (P/N 128910, see web)


A


B


C

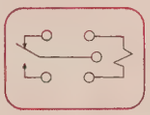

D

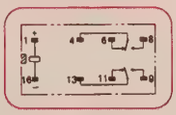


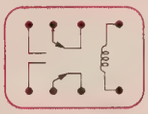
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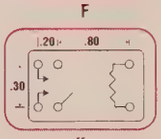
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K


Fig. 1


Fig. 2

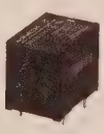
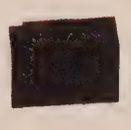
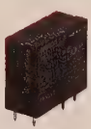
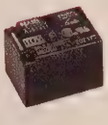

Fig. 3


Fig. 4


Fig. 5


Fig. 6


Fig. 7

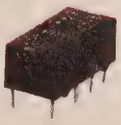

Fig. 8


Fig. 9

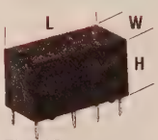


Fig. 10

Part No.	Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	Pricing 10	Pricing 50	Pricing 100
145753	L90A-12W ♻ *	Rayex	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	$2.45	$2.21	$1.76	$1.32
134949	L90-5W ⊕	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	2.35	2.24	2.11	1.58
174450	LU-5 ♻	Rayex	T81H5D215	2B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.99	1.79	1.65	1.59
187151	G5LE-1DC5 ♻	Omron	—	3C	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.41	1.38	1.34	1.27
187240	G5V-1-DC5 ♻	Omron	—	4D	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	1.65	1.62	1.57	1.48
664309	JW1FSN-DC12V	Nais (Aromat)	—	5E	SPDT	12VDC	270	250VAC/30VDC	10	5	1.13 x .51 x .79	1.85	1.65	1.40	1.24
172937	JS1-12V	Nais (Aromat)	T72M5D121-12	7F	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.15	1.08	.96	.82
144186	JZC-22F	Velleman	VR15M121C	2G	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174431	LEG-12F ⊕ ✪	Rayex	T7CS5D12	2G	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	1.79	1.55	1.43	1.31
187282	G6A-234PSTUSDC5 ♻	Omron	—	8H	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.99	3.80	3.64	3.48
174378	LM2-12D ♻	Rayex	RKA5DZ12	9I	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258	G5V-2-DC12 ♻	Omron	—	10J	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
215909	RKA-7DZ-12	P & B	—	6K	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39

*Manufacturer may vary ✪ Blue Part No. = Limited Quantity Available

Committed to You — We're committed to providing you with the best service in the industry.

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

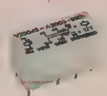
♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

DIP Relays

- Logic control levels
- Long life with reliable operation
- Moisture resistant
- Compatible with IC sockets
- Compact design/construction
- Excellent for PCB applications

Aromat

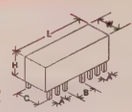

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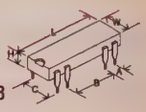

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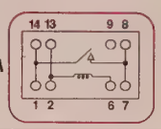
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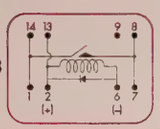
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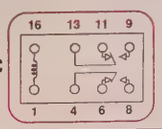

Fig. 1

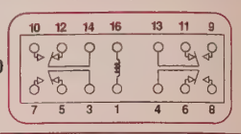

Fig. 2


Fig. 3





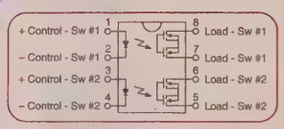




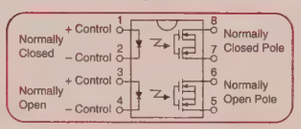
Part No.	Product No.	Manufacturer	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing 1	10	50	100
106463	201A05 ♻	Excel Cell Elect.	3A	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	.78 x .25 x .20	.10 x .40 x .30	$2.59	$2.17	$1.82	$1.50
138431	2D1A05 ♻	Excel Cell Elect.	3B	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
139977	RSB5S	Shin Mei	1C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99311	DS2Y-S-DC12V ♻	Aromat (NAIS)	1C	DPDT	12VDC	720	110VAC/30VDC	0.3A/1A	8	37372	.79 x .40 x .43	.20 x .40 x .30	2.59	2.38	2.12	1.80
99901	LX200D00	Clare	1C	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
136549	DS4E-M-DC5V	Aromat	2D	4PDT	5VDC	62.5	125VAC/30VDC	0.6A/2A	14	112299	1.40 x .40 x .36	.20 x .30 x .30	6.15	5.91	5.43	4.74
176313	DS4E-M-DC12V ♻	Aromat	2D	4PDT	12VDC	360	125VAC/30VDC	0.6A/2A	14	112299	1.40 x .40 x .36	.20 x .30 x .30	6.79	6.11	4.88	4.10

OptoMOS® Solid State Relays

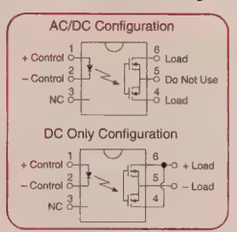
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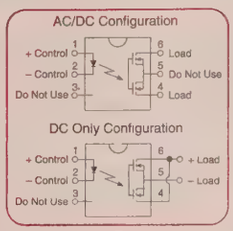
A



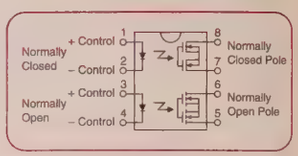
B



C



D



E


Fig. 1


Fig. 2


Fig. 3

LOWER PRICES

Part No.	Product No.	Package	Description	Fig.	Load Voltage (V)	Current Handling (mA)	On-Resistance (ohms)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (µA)	Switching Speed (on/off) (ms)	Pricing 1	25	50
1582903	LAA110 ♻	DIP-8	Dual single pole, 1-Form-A	1A	350	120	35	3750	5	1	3/3	$3.45	$3.15	$2.89
1582911	LAA110P ♻	Flatpack-8	Dual single pole, 1-Form-A	2A	350	120	35	3750	5	1	3/3	4.29	3.82	3.47
1582920	LAA110S ♻	SOIC-8	Dual single pole, 1-Form-A	3A	350	120	35	3750	5	1	3/3	3.55	3.22	2.90
1582938	LAA120 ♻	DIP-8	Dual pole, 2-Form-A	1A	250	170	20	3750	5	1	5/5	5.09	4.27	3.50
1582946	LAA125S ♻	DIP-8	Dual pole, 2-Form-A	1A	350	170	16	3750	5	1	5/5	3.65	3.27	2.95
1582954	LAA127 ♻	DIP-8	Dual pole, 2-Form-A	1A	250	200	10	3750	5	1	5/5	6.19	5.39	4.89
1582962	LBA110 ♻	DIP-8	Dual pole, 1-Form-A & 1-Form-B	1B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582971	LBA110P ♻	Flatpack-8	Dual pole, 1-Form-A & 1-Form-B	2B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582989	LBA110S ♻	SOIC-8	Dual pole, 1-Form-A & 1-Form-B	3B	350	120	35	3750	2	1	3/3	4.25	4.09	3.94
1582997	LCA110 ♻	DIP-6	Single pole, 1-Form-A	1C	350	120	35	3750	2	1	3/3	1.75	1.59	1.49
1583009	LCA110S ♻	SOIC-6	Single pole, 1-Form-A	3C	350	120	35	3750	2	1	3/3	1.89	1.69	1.54
1583025	LCA120L ♻	DIP-6	Single pole, 1-Form-A	1D	250	170	20	3750	5	1	5/5	2.99	2.49	2.29
1583041	LCA710 ♻	DIP-6	Single pole, 1-Form-A	1D	60	1000	0.5	3750	10	1	2.5/0.25	4.75	4.41	4.14
1583164	PLA132S ♻	SOIC-6	Single pole, 1-Form-A	3D	50	600	1	3750	5	1	5/2	4.49	3.99	3.75
1583050	LCB110 ♻	DIP-6	Single pole, 1-Form-B	1C	350	120	35	3750	5	1	3/3	2.15	1.96	1.80
1583068	LCB120 ♻	DIP-6	Single pole, 1-Form-B	1D	250	170	20	3750	5	1	5/5	2.89	2.63	2.38
1583084	LCC110 ♻	DIP-8	Common input, 1-Form-C	1E	350	120	35	3750	8	1	4/4	4.19	3.69	3.37
1583092	LCC120 ♻	DIP-8	Common input, 1-Form-C	1E	250	170	20	3750	10	1	5/5	4.35	3.99	3.64
1583148	PAA140A ♻	SOIC-8	Single pole, 2-Form-A	3A	400	250	8	3750	50	1	3/1	6.55	6.07	5.69

Solid State Relays

crydom


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6


Fig. 7


Fig. 8

Part No.	Product No.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing 1	10	50
467487	AO241*	4V - 10VDC	DC/AC	SPST-NO	24V - 280V	0.025A - 1A	4	1	Solder leads	UL/CSA/CE	0.95 x 0.20 x 0.50	$9.95	$9.46	$9.01
467508	ASO241♠*	4V - 10VDC	DC/AC	SPST-NO	24V - 280V	0.025A - 1A	4	1	Solder leads	UL/CSA/CE	0.70 x 0.20 x 0.50	10.09	9.59	9.14
468156	CX240D5R♠**	3V - 15VDC	DC/AC	SPST-NO	12V - 280V	0.06A - 5A	4	2	Solder leads	UL/CSA/VDE/CE	1.70 x 1.00 x 0.30	10.09	9.59	9.14
468498	D2410♠	3V - 32VDC	DC/AC	SPST-NO	24V - 280V	10A	4	3	Screw terminal	UL/CSA/VDE/CE	1.80 x 0.90 x 2.30	34.25	32.63	31.09
468771	D2W203F♠*	3V - 32VDC	DC/AC	—	24V - 280V	0.06A - 2A	4	4	Solder leads	UL/CSA/CE	1.70 x 0.47 x 1.18	10.45	9.94	9.47
468789	D2W203F-11♠*	3V - 32VDC	DC/AC	—	24V - 280V	0.6A - 35A	4	4	Solder leads	UL/CSA/CE	1.70 x 0.47 x 1.18	11.09	10.55	10.05
480260	MCX240D5♠	3V - 15VDC	DC/AC	SPST-NO	12V - 280V	0.06A - 5A	4	5	Solder leads	UL/CE	1.70 x 0.40 x 1.00	12.25	11.66	11.10
480518	PF240D25♠†	3V - 15VDC	DC/AC	—	12V - 280V	0.06A - 25A	4	6	Solder leads	UL/VDE/CE	1.70 x 1.35 x 0.90	22.35	21.28	20.28
467903	CMX60D10♠	3V - 10VDC	DC/DC	SPST-NO	0V - 60V	0A - 10A	4	7	Solder leads	UL	1.70 x 1.00 x 0.30	33.19	31.61	30.09
127790	D2W202F	3V - 32VDC	DC/AC	SPST	280VAC	2A	4	8	Solder lead	UL/CSA	1.70 x 0.40 x 1.30	8.05	7.84	7.32

* Triac output ** Random turn-on † SCR output

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Solid State, General Purpose Relays & Circuit Breakers

Additional Relays are available online at www.Jameco.com/Electromechanical

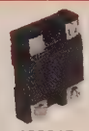
DC/AC and DC/DC Solid State Relays

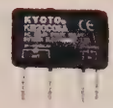
- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Zero crossing


164996 (Fig. 1)


153059 (Fig. 2)


162342 (Fig. 3)


192815 (Fig. 4)



176698 (Fig. 5)


176736 (Fig. 6)



187004 (Fig. 7)

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing 1	10	50	100
Solid State Relays DC/AC Type																
164988	S101S02	Sharp	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	1	Solder Lead	UL/CSA	0.9 x .16 x .63	$3.95	$3.49	$2.95	$2.25
164996	S202TA1	Sharp	1.2VDC@20mA	DC/AC	SPST	200VAC	2.0A	4	1	Solder Lead	UL/CSA	0.9 x .16 x .63	6.95	5.54	4.85	3.64
153059	KSD203AC2 ♻	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	10.09	9.09	7.25	6.12
162342	ESR51024-010 ♻	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	19.15	17.27	15.55	13.99
162369	ESR51024-025 ♻	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	26.35	23.75	21.35	19.27
162406	ESR51024-040 ♻	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	27.59	24.84	22.44	20.16
192815	KSD240AC8 ⊕	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	4	Screw Terminal	—	1.8 x 0.6 x 2.3	24.09	21.64	19.48	17.54
175214	KB20C02A ⊕	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	5	Solder Lead	—	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
176698	KB20C06A ⊕	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	5	Solder Lead	—	1.4 x 0.3 x 0.9	10.89	9.80	8.71	7.84
176719	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	6	Screw Terminal	—	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176736	KD20C75AX ♻	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	6	Screw Terminal	—	1.7 x 0.9 x 2.3	39.95	35.99	32.39	29.15
186992	G3NA-210B-DC5-24 ⊕	Omron	5-24VDC	DC/AC	SPST	240VAC	10A	4	7	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004	G3NA-220B-DC5-24 ⊕	Omron	5-24VDC	DC/AC	SPST	240VAC	20A	4	7	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	18.55	16.94	16.18	14.85
Solid State Relays DC/DC Type																
172591	KF0602D ⊕	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	5	Solder Lead	—	1.4 x 0.3 x 0.9	$11.95	$10.74	$9.54	$8.34
175222	KF0604D ⊕	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	5	Solder Lead	—	1.5 x 0.3 x 0.9	13.95	12.99	12.69	12.32
176648	KG1005D ♻	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	6	Screw Terminal	—	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655	KG1010D ⊕	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	6	Screw Terminal	—	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89

Potter & Brumfield General Purpose Relays

- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications
- Contact arrangements from SPDT to 4PDT
- UL/CSA approved

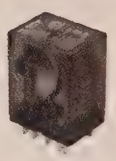

Fig. 1


Fig. 2

Part No.	Product No.	Tyco No.	Fig.	Contact Form	Contact Rating	Coil Voltage	Coil Resis. (Ω)	Coil Curr. (mA)	Mating Socket* Standard	Mating Socket* DIN Rail	Pricing 1	10	25	50
282247	K10P-11A15-120 ♻	4-1393144-0	1	DPDT	15A @ 30VDC; 15A @ 120VAC	120VAC	3,900	11	27E488/489	27E895	$7.35	$6.77	$6.21	$5.73
282255	K10P-11D15-12 ♻	5-1393144-5	1	DPDT	15A @ 30VDC; 15A @ 120VAC	12VDC	160	75	27E488/489	27E895	7.25	6.70	6.15	5.80
282263	K10P-11D15-24 ♻	5-1393144-7	1	DPDT	15A @ 30VDC; 15A @ 120VAC	24VDC	650	37	27E488/489	27E895	7.35	6.78	6.22	5.91
282343	KRPA-11AG-120 ♻	2-1393104-5	2	DPDT†	10A @ 240VAC	120VAC	2,250	17.5	27E122	27E891	12.49	11.35	10.41	10.05

* For compatible sockets see page 132 † Silver-cadmium oxide, no lamp

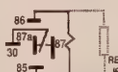
Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A
- Terminal type: quick connect
- Coil voltage: 12VDC
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Schematic 1



Schematic 2


171460 (Fig. 1)

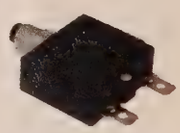

171442 (Fig. 2)


171433 (Fig. 3)

Part No.	Cross Ref. No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Ohms	Contact Schematic	Coil Voltage	Pins	Pricing 1	10	50	100
171460	LD1A-12F ♻	VF4-81F11S01	1	SPST-NO	78	1	14VDC	4	$2.29	$2.11	$1.87	$1.55
171442	961A-1A12D ♻	VF4-11F11	2	SPST-NO	90	1	14VDC	4	2.69	2.53	2.46	2.40
148583	LD12F ♻	VF4-85F11	3	SPDT	78	2	12VDC	5	2.65	2.38	1.90	1.43
171433	961A-1C-12DM ♻	VF4-81F11	3	SPDT	90	2	12VDC	5	2.99	2.69	2.25	1.65

GC Circuit Breakers

- Quick connect style terminals
- Actuator: black plastic button
- Mounting hole: 0.450"
- Included hardware: nut, knurled nut, ID plate



Part No.	Prod. No.	Current Rating (A@VAC)	1	10	50	100
621376	35-2105	5 @ 125/250 ..	$4.75	$3.69	$3.49	$3.29
621413	35-2110	10 @ 125/250	4.75	3.69	3.49	3.29
621430	35-2115	15 @ 125/250	3.25	3.05	2.90	2.75
621448	35-2120	20 @ 125/250	4.75	3.69	3.49	3.29

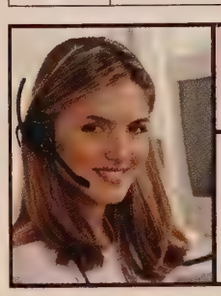
Relay Socket with Coil Diode

VF4 Type

- 7.5" wire
- Diode coil suppression
- Contact voltage: 12V
- Contact current: 20A
- 12 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire
- Use with P/N 148583, pg 131



Part No.	Cross Ref. No.	1	10	50	100
170624	RSD03 ⊕	$2.35	$2.15	$1.89	$1.55



Order Anytime, Day or Night!

Our friendly Sales department will assist you 24x7x365 by phone, fax, web or email. 1-800-831-4242

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

General Purpose Relays & Sensors

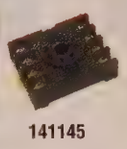
Additional Relays are available online at www.Jameco.com/Electromechanical

General Purpose Relays

Pin Type Terminals • DPDT

- 8-pin octal style plug • Size: 1.4"L x 1.4"W x 2.7"H
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient oper. temp.: -10°C to +50°C


139766


141145

BTA1 Series Relays

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139766	BTA1-2C-12VDC⊕	R02-11D10-12	12VDC	$11.79	$11.57	$8.68

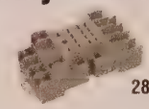
Socket for BTA1 Series (250 VAC, 20 Amps)

Part No.	Product No.	Pins	Dimensions	1	10	50
141145	PF-083A⊕	8	2.0"L x 1.6"W x 0.8"H	$4.39	$4.08	$3.31

Relay Sockets

LOWER PRICES


282132


282183


282191

Relay Socket for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282132	27E122	DPDT	8	Standard	$4.15	$3.82	$3.69	$3.57

Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282183	27E894	4PDT	14	DIN rail	$7.09	$6.71	$6.47	$6.15

Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282191	27E895	DPDT	8	DIN rail	$4.79	$4.53	$4.37	$4.16

General Purpose Relays

JAMECO EXCLUSIVE

LB2 Series

- Contact rating: 240VAC/30VDC @ 12A • DPDT
- Mechanical life: 10,000,000 operations • 8-pin
- Electrical life: 100,000 operations min. at rated load

Blue Part No. = Limited Quantity Available



Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	50	100
172719	LB2-12DS	K10-11D15-12	12VDC	$5.39	$4.85	$4.31	$3.88
175565	LB2-24DS	K10-11D15-24	24VDC	6.49	5.84	4.67	3.50
175573	LB2-110AS	K10-11A15-120	110VAC	6.89	6.43	5.96	4.71
175572	LB2-110AS⊕	K10-11A15-120	110VAC	6.89	6.43	5.96	4.71

LB4H Series

- Insulation resistance: 1,500MΩ @ 500VDC
- Mechanical life: 10,000,000 operations • 4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load



Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	25	50
291507	LB4H-12DS	KHAU-17D12-12	12VDC	$4.45	$4.33	$4.20	$4.03
175601	LB4H-24DS⊕	KHAU-17D12-24	24VDC	5.09	4.93	4.77	3.58
175610	LB4H-110AS⊕	KHAU-17A12-120	110VAC	5.79	5.38	4.97	4.62

Relay Sockets

- DIN rail snap socket for LB2 & LB4H relays


175531


175557

Part No.	Mfg. P/N	P & B Cross Ref.	Pins	1	10	50
175531	PTF-08A-A	27E895	8	$6.65	$5.98	$5.38
175556	PYF-14A-A⊕	27E894	14	4.75	4.02	3.02

For additional relays visit www.Jameco.com

Inductive Proximity Switch Sensors

Cylindrical and Square Styles

- Operating voltage range: 10-30VDC • Fast response
- Nominal operating voltage: 12VDC • 6' long cable
- Normally open output • Pre-tinned pigtail
- Switching frequency: 1.5kHz • Short circuit protected
- Current consumption: 10mA max. • LED status indicator
- Sensing target: inductive type – magnetic metal • Sensing distance: ±10% (tin)


248858


167020


155547

Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x Dia.")	Mounting Hole (in.)	Pricing 1	10	25
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	$10.99	$9.99	$8.99
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	20.65	18.61	16.75
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	22.69	20.40	18.13
421201	TS12-05N-1⊕	NPN	0-4.0mm	12 x 12 x 1	2.5" x 0.80"	0.66	26.19	22.28	16.72

Magnetic Proximity Switch Sensor

- Contact rating: 3W max. @ 30VDC or 0.3A max. @ 30VAC
- Contact form: SPST NO • Contact resistance: 100mΩ max. initial
- Operating temp.: -40°C to 100°C • Dielectric strength: 200VDC min.
- Mechanical & electrical life: 10 million operations
- Housing/spacer/cover: ABS plastic (UL94V-0),.white
- Reed switch: rhodium coated, hermetically sealed, nitrogen filled glass capsule
- Wire leads: UL1060 22AWG stranded wire, stripped, 12"L white • Potting: epoxy
- Adhesive mounting: (MPS45WGW only) – foam backed, pressure sensitive



Part No.	Product No.	Description	1	10	100
588131	MPS45WGW	Subminiature surface mount, side exit leads, 1" make gap	$8.35	$7.63	$7.00

Magnetic Proximity Sensor

- Omnipolar, magnetically activated switch • Zero power consumption
- Can be approached by any magnet from any angle with either pole
- Hermetically sealed • Breakdown voltage: 200VDC min.
- Contact resistance: 0.2Ω max. • Operating temp. range: -40°C to 105°C



Cylindrical Plastic Housing • Resistant to dirt and moisture

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max.(A)	Op. Time Typical (ms)	Pricing 1	10	25
513308	MP201701	SPST NO	10	175	0.5	0.5	$3.05	$2.67	$2.23

Commercial Grade Gear Tooth Speed Sensor

Hall-Effect w/ Adjustable Aluminum Housing

- Reverse battery protection from 24VDC
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output voltage: 400mV max.
- Output current: 25mA max. • Wire: 20AWG x 1m
- Oper. temp. range: -40°C to 125°C • Output: sink
- Thread: 15/32" – 32 • Barrel length: 1.0"



Part No.	Product No.	1	10	25
512401	GS100701	$24.95	$21.11	$18.47

Pressure Sensor

- Measurable pressure range: -1.1 to 2.5 PSI
- Operating volt.: 5V @ <10mA
- Maximum excitation voltage: 8V
- 1/8" diameter tubing is applicable
- Pressure media: non-corrosive gas
- Pre-calibration of offset volt. & span
- Maximum load pressure: twice rated pressure
- On-chip amplification and temp. compensations
- Volt-level output • Size: .55"L x .47"W x .20"H



Part No.	Product No.	1	10	100
196103	XFPN-025-KPGRNW1	$24.95	$22.45	$20.21

Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- 1/8" diameter tubing applicable
- Operating volt. (typical): 3VDC @ 6mA
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)
- Max. pressure (P_{MAX}): 75kPa (10.875 PSI)
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls



Part No.	Product No.	1	10	100
218827	MPX10GS	$8.99	$7.64	$7.19

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Sensors are available online at www.Jameco.com/Electromechanical

Honeywell TD Series Temperature Sensor



- 2kΩ nominal resistance at 20°C • TO-92 package
- Interchangeable without sensor-to-sensor recalibration
- Operating temperature range: -40°C to 150°C (-40°F to 302°F)
- Air or liquid temp. sensing • Volt.: 10V continuous (24 hrs)

Part No.	Product No.	Description	1	10	100
1916230	TD5A ♻ ♠	Temperature sensor	$3.59	$3.22	$2.66

Honeywell ASCX Series Microstructure Pressure Sensor Signal Conditioned, Amplified

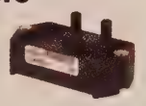


This amplified ASCX series offers a high level (4.5V span) output on a very cost-effective basis. Fully calibrated and temperature compensated over a range of 0°C to 70°C but can be operated from -25°C to 105°C.

- Quiescent current: 4mA • Load condition: 200kΩ • Offset adjust
- Output current: 5mA source; 3mA sink • Supply voltage: 5.01VDC ±0.01VDC

Part No.	Product No.	Operating Pressure	Proof Pressure	Sensitivity	1	10	100
1840061	ASCX15DN ♻	Opsid to 5psid	30psid	0.3V/psid	$65.79	$51.17	$49.20

Honeywell 140PC Series Pressure Sensors



1814891

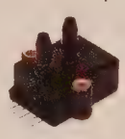
- PCB terminals on opposite side from the ports
- Current sourcing output: 10mA max.
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Common mode pressure: 40psi
- Supply current: 8mA typical • Excitation: 8VDC typical

Part No.	Product No.	Type	Pressure Range (psi)	Sensitivity (V/psi)	Overpressure (psi) max.	1	10	100
1814891	143PC03D	Differential	±2.5	1.0	20	$101.15	$90.42	$76.18
1814840	142PC15A	Absolute	0 – 15	0.333	45	100.15	89.69	78.78
1814831	142PC01D	Differential	0 – 1	5,000	2	96.69	87.22	77.96

Honeywell SCX & SDX Series Microstructure Pressure Sensors, Compensated

- Supply volt.: 20VDC • Op. temp.: -40°C to 85°C (-40°F to 185°F)
- Typical applications: medical equipment, computer peripherals, pneumatic controls, HVAC • Input/output resistance: 4kΩ • Calibrated zero and span

SCX Series



- Type: Absolute
- Full scale span: 89.1mV min. to 90.9mV max.
- Zero pressure offset: -300µV min. to 300µV max

Part No.	Product No.	Operating Pressure	Proof Pressure	Sensitivity	1	10	100
1913784	SCX15AN ♻	0 to 15psia	30psia	6mV/psi	$61.15	$53.96	$50.62

SDX Series

LOWER PRICES



1914082

- Zero pressure offset: -1mV min. to 1mV max.
- SDX05G2: Full scale span – 57.0mV min. to 62.1mV max.
- SDX15A2: Full scale span – 86.85mV min. to 93.15mV max.

Part No.	Product No.	Operating Pressure	Proof Pressure	Type	1	10	100
1914082	SDX05G2 ♻	0 to 5psid	20psid	Gage	$37.25	$32.78	$28.31
1914103	SDX15A2 ♻	0 to 15psia	30psia	Absolute	37.25	28.66	26.75

Honeywell SS400 Series Solid State Digital Position Sensors



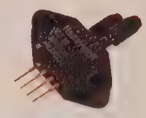
1915915

- High output current capability -50mA absolute max.
- Op. temp. range: -40°C to 150°C (-40°F to 302°F)
- Supply voltage: 3.8VDC to 30VDC • Output voltage: 40mV max.
- Supply current: 10mA max. • Output current: 20mA max.
- Output leakage current: 10µA max. • 3-pin SIP package • Output type: sink

Part No.	Product No.	Type	Operating Point @ 25°C	Release Point @ 25°C	1	10	100
1915915	SS466A ♻ ♠	Latching	180 gauss	-180 gauss	$1.59	$1.32	$1.24
1915886	SS441A ♻ ♠	Unipolar	115 gauss	20 gauss	1.89	1.49	1.44
1915843	SS411A ♻ ♠	Bipolar	60 gauss	-60 gauss	1.89	1.69	1.49

Honeywell SX Series Silicon Pressure Sensor

Designed for use with non-corrosive, non-ionic media such as air and dry gases.



- High impedance bridge • Supply voltage: 12VDC
- Full scale span: 50mV min to 100mV max. • N package
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Low power consumption for battery power • Input & output resistance: 4.1kΩ

Part No.	Product No.	Operating Pressure Range	1	10	100
1916029	SX05DN ♻	0psi to 5psi	$43.59	$36.81	$35.67

Honeywell SCC Silicon Pressure Sensors

The SCC series sensors offer an extremely low cost sensor element with a temperature stable output when driven with a constant current source.

1913645



- Internal temperature compensation • Supply current: 1.5mA
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Input/output impedance: 5kΩ typical • Accuracy: 0.5% • Button package

Part No.	Prod No.	Operating Pressure Range	Max. Over Pressure	Full Scale Span (mV)	1	10	100
1913670	SCC15D ♻	0 to 15psid	30psi	40 to 95	$23.35	$18.53	$17.29
1913645	SCC100D ♻	0 to 100psig	150psig	85 to 225	21.55	20.34	19.12

Honeywell HIH-4000 Series Humidity Sensors



1860248

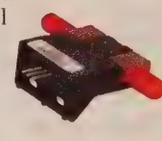
1860230

- Designed specifically for high volume OEM
- Direct input to a controller or other device is made possible by this sensor's linear voltage output
- Linear volt. output vs %RH • 3-pin SIP
- Op. temp.: -40°C to 85°C • High accuracy • Current supply: 500µA max.
- Accuracy (best fit straight line): ±3.5% RH • Volt. supply: 4VDC to 5.8VDC

Part No.	Product No.	Description	1	10	100
1860230	HIH-4000-002 ♻	0.05" lead pitch SIP	$29.79	$22.33	$20.23
1860248	HIH-4000-003 ♻	0.10" lead pitch SIP w/ calibration & data printout	27.15	21.74	20.65

Honeywell AWM3000 Series Microbridge Mass Airflow Sensor, Amplified

The AWM3000 series microbridge mass airflow sensor is a dual Wheatstone bridge that is amplified. Heating control circuit and sensing bridge supply circuit are on board.



- Laser trimmed for improved sensor interchangeability
- Output voltage @ trim point: 5V @ 1000sccm
- Flow sensing up to 1.0SLPM

Part No.	Product No.	Flow Range	Power Consumption	1	10	100
1840280	AVM3300V ♻	+1000sccm	5mW typical	$86.65	$66.83	$61.32

Honeywell AWM2000 Series Microbridge Mass Airflow Sensor, Unamplified

The AWM2000 series microbridge mass airflow sensor is a passive device comprised of two Wheatstone bridges. The heat control circuit and sensing bridge supply circuit are required for operation per specifications. These two circuits are not on board and must be supplied in the application.



- Bidirectional sensing capability • Output volt. @ trim point: 30mV @ 100sccm
- Actual mass air flow sensing • Low differential pressure sensing

Part No.	Product No.	Flow Range	Power Consumption	1	10	100
1840247	AWM2100V ♻	±200sccm	30mW typical	$75.55	$59.64	$53.67

Honeywell SS41 Series Low Gauss Bipolar Hall Effect Position Sensor



- Supply current: 6mA typical, 15mA max @ Vs = 6V to 24V
- Output volt.: 0.15V typical, 0.40V max @ -40°C to 125°C
- Reverse power polarity protection • 3-pin SIP
- Op. temp. range: -55°C to 150°C • Bipolar magnetic type
- Op. speed from 0 to over 100kHz • Supply volt.: 4.5VDC to 24VDC

LOWER PRICES

Part No.	Product No.	Op. Point @ 25°C	Release Point @ 25°C	1	10	100
1915835	SS41 ♻ ♠	200 gauss	-200 gauss	$1.49	$1.21	$1.16

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Buzzers are available online at www.Jameco.com/Electromechanical

Optical Sensors

AVAGO TECHNOLOGIES

LOWER PRICES



Fully integrated modules for applications which require optical-reflective sensing. Packaged in a TO-5 metal sealed package.

- Resolution: 0.19mm
- Wavelength: 700nm

Part No.	Product No.	1	10	100
1548801	HBC-1100 ℞	$32.95	$31.53	$30.10

The APDS-9002 is a low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It consists of a spectrally suited phototransistor, which peaks in human luminosity curve.

LOWER PRICES



- Supply voltage: 2.4V to 5.5V
- Oper. temp.: -40°C to 85°C
- Dark current: 50mA
- Fall time: 0.8 ms
- Rise time: 0.95 ms
- Light current ratio: 1.2

Part No.	Product No.	1	10	100
1548511	APDS-9002-021 ℞	$.58	$.56	$.54

Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case



136654

136654: Transmit/Receive Set

Quantity Save

- Capacitance: 2000pF ±30%
- Lead length/spacing: 0.39"
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz
- Receiver: bandwidth 3.5kHz @ -71dB,min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)

139492: Transmit/Receive Set



139492

- Capacitance: 2000pF ±20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)

Part No.	Cross Ref.	Case Size	1	10	50
136654	40TR16F ℞	0.47"H x 0.62"Dia.	$7.95	$6.75	$5.07
139492	40TR12B ℞	0.30"H x 0.43" Dia.	7.69	6.96	6.26

Sonic Transducers and Buzzers

JAMECO ValuePro

Quantity Save

JAMECO EXCLUSIVE

Magnetic Transducers

- Applied voltage: 1/2 duty, square wave

✪ Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Fig.	Operating Volt. (Vp-p/mA)	Volt. Range (Vp-p)	Freq. (Hz)	Sound (dB)	Dimensions	Pricing 1	10	100	1000
207917	DB105GFPN ⊕	1	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	$1.59	$1.17	$1.00	$.87
138722	DB111A-PN ℞	2	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	1.55	1.39	1.12	.84
138740	DBX05-PN ℞	2	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.34	1.07	.80
106500	SBT-1205	2	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.34	1.07	.80
Great Prices on Special Buys*											
1537408	QMB-01	3	1.5/15	—	2048	80	.53"H x .63"Dia.	$1.29	$1.19	$1.05	$.75

*Manufacturer may vary

Magnetic Buzzers

76065	TDB05-PN ℞	4	5/30	4 – 7	2300	85	.35"H x .46"Dia.	$2.99	$2.79	$2.69	$2.59
207976	TDB12 ⊕ ✪	4	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.35	2.18	1.85	1.75

Piezo Buzzers

336276	PT-1250W ⊕	5	3/1.5	2 – 5	1250	85	13mm H x 30mm Dia.	$1.89	$1.49	$1.38	$1.04
123538	11D3240 ℞	6*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.65	3.49
336989	SC616N ⊕	7C	6–16/6–22	6 – 16	2900	95	1.28"H x 1.69"Dia	13.65	12.29	9.83	7.37
335557	MSR320 ℞	8	3–20/3–16	3 – 20	3400	80	.39"H x .91"Dia	2.55	2.30	1.84	1.38
76021	7S3240-LA ⊕	9	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia	6.49	6.10	5.84	4.38
335695	PF-20A35EW ⊕	9F	12/10	3 – 28	3500	95	25mm H x 28mm Dia	4.29	3.66	3.36	3.09
336314	PT-2038FW ℞	10	12/8	3 – 28	3800	85	4.5mm H x 24mm Dia.	1.38	1.24	1.00	.75
138712	32S4120-PN	4	12/7	3 – 16	4000	80	.30"H x .54"Dia.	3.45	2.95	2.70	2.50
196357	AI-175	4	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	3.15	2.83	2.47	1.85
335855	PK-12N40P ⊕	11	12/10	3 – 15	4100	83	8mm H x 14mm Dia.	3.95	3.16	2.69	2.42

* Dual tone C = Continuous tone F = Fast pulse

Mechanical/Electromechanical Buzzers

24871	63S109LA ⊕ ✪	12	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	$2.49	$2.19	$1.99	$1.79
140695	63S1120-LA ⊕	12	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.69	1.54	1.39	1.11

Piezo Sirens

336225	PS-562	13	12/40	5 – 15	2500/3500	100	16mm H x 42mm Dia.	$6.05	$5.45	$4.36	$3.27

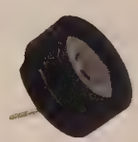


Fig. 1



Fig. 2



Fig. 3



Fig. 4

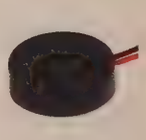


Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

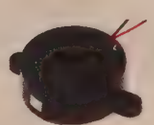


Fig. 13

Omni-directional Electret Condenser Microphone Cartridges

Applications:

- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring
- Impedance: >2.2kΩ
- Max. current: 0.5mA
- Terminals: PC pin leads

Quantity Save



160979



136574 & 320179

Part No.	Type	Sensitivity	Frequency (Hz)	Max. Op. Volt.	Stand Op. Volt.	Sensitivity Reduction	S/N Ratio	Size (H x Dia.)	Pricing 1	10	100	1000
160979	WM-64PKT	-44 ±3dB	20-16,000	10VDC	2.0VDC	-3dB @ 1.5V	>58dB	.10" x .24"	$.72	$.65	$.52	$.39
136574	WM-60PC ℞	-54 ±2dB	20-12,000	12VDC	4.5VDC	-3dB @ 3V	>40dB	.30" x .38"	.59	.54	.49	.44
320179	EM-99 ℞	-64 ±2dB	20-12,000	12VDC	4.5VDC	-3dB @ 3V	>40dB	.27" x .39"	1.49	1.25	.99	.81

1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Ideal for PC board mounting
- Mylar diaphragm
- Impedance: 8Ω
- Output SPL: 82 dB
- Pin spacing: 15mm
- Dimensions: 1.2"Dia. x 0.5"D
- Frequency range: 700 – 5000Hz
- Nominal input: 0.15W; max. input: 0.2W



Quantity Save

Part No.	Cross Ref. No.	Description	1	10	100
135722	PCM415 ⊕	Solder leads	$2.15	$1.79	$1.34

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 204.

Additional Speakers are available online at www.Jameco.com/Electromechanical

Round Ferrite Speakers

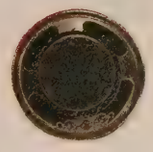
Quantity Save

For speaker wire, see page 82

- Pre-tinned speaker lugs
- Braided copper voice coil leads
- Large magnet
- Paper diaphragm
- Anodized metal surfaces

Part No.	Mfg. P/N	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
320362	TRF-050F⊕	2.0 x 0.7	0.25	0.5	8	86	320 – 4000	1.3 x 0.4	$2.09	$1.64	$1.24
135589	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.59	1.33	.99
10840	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.43	1.07


135589 Side

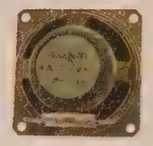

135589 Back

Square Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part No.	Mfg. P/N	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
135693	FEB200⊕	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	$1.65	$1.48	$1.32
31959	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.69	2.39	2.15
99996	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.55	2.28	2.02


99996 Side


99996 Back

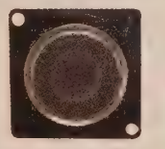
Flat Element, Square Piezoelectric Speakers

Quantity Save

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

Part No.	Mfg. P/N	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
34025	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	$2.05	$1.84	$1.38
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49
673766	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 – 6000	1.9 x 0.1	2.49	2.24	1.68


34025 Side


34025 Back

Alnico Speakers

- For computer case use
- Paper diaphragm
- Wide frequency response
- Pre-tinned solder lugs
- Large magnet
- Impedance: 8Ω

Part No.	Mfg. P/N	Fig.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
88411	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	$1.69	$1.44	$1.08
684730	A0202C	1	2.6 x 0.9	0.5	1.0	88	350 – 5000	0.9 x 0.5	1.89	1.69	1.49
135765	RA2425	1	2.2 x 0.8	0.25	0.5	87	400 – 4000	0.5 x 0.4	1.89	1.69	1.52
111587	B0102⊕✪	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.29	1.86	1.53
135812	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	3.65	3.09	2.79

✪ Blue Part No. = Limited Quantity Available


Fig. 1


Fig. 2


Fig. 3

Micro Speakers

Quantity Save

Part No.	Mfg. P/N	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
355514	GC0201M	1.70 x 0.38	0.1	0.2	78	500 – 20000	0.26 x 0.06	$1.39	$1.12	$.84
355522	GF0271M	1.06 x 0.30	0.1	0.2	82	500 - 20000	0.49 x 0.15	2.55	2.17	1.63


Front


Back


Side


Back

355514 355522

Black Instrumentation Knobs

(1/4" Shaft Diameters)

JAMECO ValuePro

LOWER PRICES

JAMECO EXCLUSIVE

- Set screw for secure attachment
- RN-112A/113A/114A: numeric dial type


264998 265009 264920 264955 264990 264883 264892 102788 104176 202287 136241 138393

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.")	1	10	100
264998	JK-902A	Black	White	.69 x 1.31	$.89	$.67	$.62
265009	JK-902B⊕	Black	White	.60 x .95	.59	.55	.51
264920	JK-901A⊕	Black/alum	White	.79 x 1.77	1.21	1.06	.98
264955	JK-901C	Black/alum	White	.61 x 1.06	.75	.59	.54
264990	JK-901D	Black/alum	White	.47 x .78	.82	.70	.58
264883	RN-112A	Black/alum	Numeric	.90 x 1.46	1.05	.89	.67

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.")	1	10	100
264892	RN-113A	Black/alum	Numeric	.70 x 1.15	$1.05	$.89	$.80
102788	JK-903C	Black	White	.54 x 1.25	.66	.45	.37
104176	JK-902C⊕	Black	White	.49 x .75	1.04	1.01	1.00
202287	CP-Z1-M-S	Black/alum	White	.60 x .80	.79	.69	.64
136241	GKB-214	Black/alum	White	.52 x .54	.78	.66	.59
138393	41108-1	Black/alum	White	.56 x .85	.99	.75	.69

Save Big! Special Values!

New Lower Prices = Orange
Exceptional Quantity Discounts = Green

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Instrumentation Knobs
(1/4" Shaft Diameters)

JAMECO EXCLUSIVE

- JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw
- CR-MS series for knurled shaft
- All photos on www.Jameco.com


Fig. 1 (265077)


Fig. 2 (265018)


Fig. 3 (265228)

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.")	Fig.	1	10	100
265051	JK-905A	Black/red	White	.58 x .57	1	$.99	$.89	$.79
265077	JK-905C	Black/blue	White	.58 x .57	1	.98	.77	.68
265018	JK-904A	Black/red	White	.47 x .78	2	.88	.75	.56
265261	CR-MS-5C5-T18 ⊕ *	Grey	Grey	.68 x .51	3	.73	.62	.465
265228	CR-MS-1C5-T18 ⊕ *	Grey	Red	.68 x .51	3	.74	.66	.495

* For use with 1/4" knurled shaft

Aluminum Instrumentation Knobs
(1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment

290125: Coarse surface for sensitive control; 1/8" shaft dia.


Fig. 1


Fig. 2

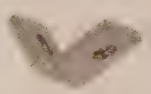

Fig. 3


Fig. 4

Part No.	Cross Ref. No.	Fig.	Shaft Size	Body Color	Pointer Color	Size (H" x Dia.")	1	10	100
290125	42008-1	1	1/8"	Silver	Silver	.500 x .625	$1.99	$1.79	$1.61
162481	K5-1/4S ⊕	2	1/4"	Chrome	Silver	.500 x .560	1.49	1.37	1.03
162499	K5-1/4B ⊕	3	1/4"	Black	White	.500 x .560	1.85	1.59	1.19
138482	KN031	4	1/4"	Alum.	Black	.610 x .650	1.95	1.76	1.55
138502	KN032	4	1/4"	Alum.	Black	.870 x .750	2.35	2.05	1.85
138511	KN033	4	1/4"	Alum.	Black	1.18 x .870	2.49	2.24	1.95

Hardware

4-40 Mounting Bracket



- Material: zinc plated

Part No.	Product No.	Description	Size (H"xL"xW")	1	10	100
1581530	621	L-type, steel	.343 x .375 x .250	$.35	$.25	$.197

Rubber Grommet



- .062" panel thickness
- .437"ID x .812" mounting hole

Part No.	Product No.	1	10	100
1581556	747	$.57	$.51	$.39

.250" Swage Threaded 4-40

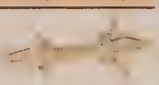
LOWER PRICES



- Brass nickel plated

Part No.	Product No.	Description	Shank Diameter	1	10	100
1582428	1560A	Round .125"H	.187"	$.31	$.25	$.17

Spacer



- Nylon 6/6, UL94V-0
- Slimline lock-in, ins.
- .156"/.187" mounting hole

Part No.	Product No.	Description	Diameter	1	10	100
1582452	1930B	.625"L	.275"	$.23	$.19	$.115

#8 Aluminum screw

LOWER PRICES



- Clear hole

Part No.	Product No.	Description	Size	1	10	100
1581492	415	.437"L	.176" ID x .232" OD	$.21	$.174	$.14

Nylon Shoulder Washers/Bushing



- Nylon 6/6
- Minimum order 10 pieces

Part No.	Product No.	Screw Size	Diameter	10	100	500
1581804	3049	4	.218"	$.079	$.039	$.034

4-40 Force-Fit Threaded



- Stainless steel
- .166" mounting hole

Part No.	Product No.	Description	Diameter	1	10	100	500
1581898	4861	Round, .065"L	.218"	$.78	$.72	$.66	$.60
1581901	4863	Round, .250"L	.218"	.85	.79	.65	.55

RAF Electronic Hardware — Instrumentation Handle



- 32 threads
- Oval diameter: 5/8"
- Material: brass, nickel plate

Quantity Save

Part No.	Size (L" x H" x T")	1	10	100
216821	3.0 x 1.3 x 0.3	$2.49	$2.12	$1.59

KEYSTONE — Instrumentation Handle

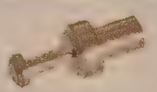


LOWER PRICES

- 8-32 internal thread
- Diameter: .250"
- Size: 4.0"L x 1.5"H x .375"T
- Fully Insulated
- Material: aluminum, black anodized

Part No.	Product No.	Description	1	10	100
1582196	7174	Round	$3.49	$2.91	$2.75

KEYSTONE — Terminal Turrets

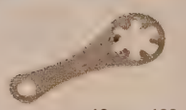


- Material: brass, bright tin plated
- Mounting hole: .078" dia.
- ✳ Minimum order 10 pieces

1582410

Part No.	Product No.	Description	Size	1	10	100
1582410	1520-2	Single	.187"L x .109" PCB thickness	✳	$.12	$.108
1582436	1573-2	Double	.186"L x .082" PCB thickness	.23	.196	.158

KEYSTONE — Terminal Lug



- Material: brass, tin plated
- .140" ID
- #6 Stud
- Minimum order 10 pieces

Part No.	Product No.	Description	10	100
1581572	904	Lockwasher	$.087	$.079

KEYSTONE — Deluxe Tip Jacks



- Fully insulated
- Size: .949" L x .375" Dia.
- Chassis mount with nut
- Accepts .080" tip

1582111 1582137

Part No.	Product No.	Color	Current Rating	1	10	100
1582111	6030	White	10A	$1.95	$1.80	$1.69
1582129	6033	Green	10A	1.47	1.39	1.33
1582137	6034	Yellow	10A	1.75	1.65	1.56

KEYSTONE — Looped Surface Mount Test Point



- Phosphor bronze, silver plated flat wire
- Tape and reel
- ✳ Minimum order 10 pieces

1582081

Part No.	Product No.	Description	Size	1	10	100
1582081	5015	Miniature	.060"H x .105"L x .040"W	✳	$.097	$.091
1582090	5016	Compact	.090"H x .150"L x .112"W	.41	.33	.218

PCB Standoff Mounting Hardware



- Snap "on"
- Nylon

Part No.	Cross Ref. No.	Dimensions	Holes	1	10	100	1000
129252	PCST2	0.9"L x 0.4"Dia.	0.2"/0.3"	$.21	$.184	$.112	$.077

RAF Electronic Hardware — Thumbscrews


Washer-Face


Plain

Washer-Face Aluminum

Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
393976	7100-A	4-40	5/16"	5/8"	$1.55	$1.47	$1.40	$1.33
394004	7106-A	8-32	3/8"	11/16"	1.95	1.85	1.76	1.32

Plain Aluminum

Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
394063	7125-A	6-32	3/8"	9/16"	$1.75	$1.41	$1.27	$.95

RAF Electronic Hardware — Spacer



Aluminum Round Spacers

Quantity Save

- Iridite clear finish
- 1/4" OD, #6 ID (0.140")

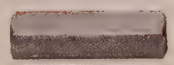
Part No.	Product No.	Length	1	10	100	1000
393319	1128-6-A-7	1/2"	$.27	$.242	$.21	$.158

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Hardware is available online at www.Jameco.com/Electromechanical

RAF Electronic Hardware Threaded Standoffs

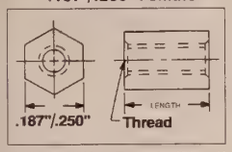
† Finish: Iridite (clear); [1] per MIL-C-5541-D; [2] bright tin plate; [3] stainless steel



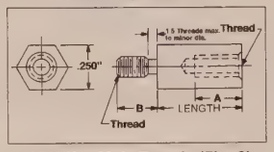
.187"/.250" Female



.250" Male/Female



.187"/.250" Hex Female (Fig. 1)



.250" Hex Male/Female (Fig. 2)

.187" Hex Female

4-40 Thread (Fig. 1) .187" Hex

• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
175636	Brass ⊕ [2]	.187"	$.21	$.15	$.10
102795	Brass ⊕ [2]	.240"	.25	.188	.125
133613	Alum ℛ [1]	.250"	.213	.128	.096
133640	Alum ℛ [1]	.500"	.224	.211	.115
139185	Alum ℛ [1]	1.000"	.44	.39	.34

.250" Hex Female

4-40 Thread (Fig. 1) .250" Hex

• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
139193	Alum ℛ [1]	.250"	$.18	$.14	$.095
77501	Alum ℛ [1]	.375"	.21	.16	.093
134763	Alum ℛ [1]	.437"	.21	.18	.15
108371	Alum ℛ [1]	.500"	.255	.173	.102
77519	Alum ℛ [1]	.625"	.37	.20	.15
133605	Alum ℛ [1]	.750"	.354	.192	.142
139206	Alum ℛ [1]	1.000"	.368	.263	.158

.250" Hex Female

6-32 Thread (Fig. 1) .250" Hex

• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
77535	Alum ℛ [1]	.250"	$.23	$.176	$.132
133592	Alum ℛ [1]	.375"	.303	.136	.094
77543	Alum ℛ [1]	.500"	.22	.17	.10
77552	Alum ℛ [1]	.625"	.26	.19	.14
77570	Alum ℛ [1]	.750"	.309	.232	.144
77578	Alum ℛ [1]	1.000"	.42	.36	.192
143408	Alum ℛ [1]	1.500"	.65	.55	.45
143441	Alum ℛ [1]	1.750"	.65	.55	.49

.187" Hex Male/Female

4-40 Thread (Fig. 2) .187" Hex

• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
393458	Alum ℛ [1]	.250"	$.298	$.283	$.269

.187" Hex Male/Female

6-32 Thread (Fig. 2) .187" Hex

• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
393554	Alum ℛ [1]	.500"	$.298	$.283	$.269
393588	Alum [1]	1.00"	.34	.309	.309

.250" Hex Male/Female

4-40 Thread (Fig. 2) (Thread A: .250"; B: .187")

• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
77586	Alum ℛ [1]	.250"	$.34	$.246	$.19
77593	Alum ⊕ [1]	.375"	.405	.235	.212
111756	Alum ℛ [1]	.500"	.405	.297	.218
139214	Alum ℛ [1]	.625"	.43	.297	.217
139222	Alum ℛ [1]	.75"	.41	.368	.221
139231	Alum ℛ [1]	1.00"	.49	.39	.34
128566	Alum ℛ [1]	1.25"	.56	.463	.40
166546	Alum ℛ [1]	1.50"	.72	.65	.538

.250" Hex Male/Female

6-32 Thread (Fig. 2) (Thread A: .375"; B: .250")

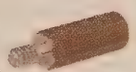
• 5 piece multiple

Part Number	Metal†	Hex Length	Pricing 5	100	1000
133542	Alum ℛ [1]	.250"	$.39	$.35	$.21
133568	Alum ℛ [1]	.375"	.41	.37	.23
77607	Alum ℛ [1]	.500"	.34	.31	.25
77623	Alum ℛ [1]	.750"	.417	.374	.281
77650	Alum ℛ [1]	1.000"	.48	.436	.349
206623	Steel [3]	1.250"	1.67	1.50	1.31

Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com.

RAF Electronic Hardware Standoffs



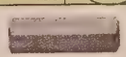
• Zinc clear chromate finish

Male-Female Hex Brass Standoffs

1/4" Hex, 4-40 Thread •Thread lgth: 3/16" • 5 piece multiple

Part No.	Product No.	Length	5	100	1000
393837	4530-440-B-12 ℛ	1/4"	$.61	$.58	$.55
393845	4532-440-B-12 ℛ	3/8"	.63	.59	.443

Female Hex Brass Standoffs



1/4" Hex, 4-40 Thread • 5 piece multiple

Part No.	Product No.	Length	5	100	1000
393693	2102-440-B-12 ℛ	3/8"	$.292	$.284	$.277
393714	2104-440-B-12 ℛ	1/2"	.206	.196	.186
393749	2112-440-B-12 ℛ	1"	.69	.65	.62

1/4" Hex, 6-32 Thread • 5 piece multiple

Part No.	Product No.	Length	5	100	1000
393772	2104-632-B-12 ⊕	1/2"	$.39	$.35	$.32
393811	2120-632-B-12 ℛ	1-1/2"	.65	.62	.59

KEYSTONE Standoffs

.250" Hex Female



1582399

• 6-32 thread
• Brass, zinc plated

Minimum order 5 pieces

Part No.	Product No.	Hex Length	5	100	1000
1582399	1451A ℛ	.250"	$.323	$.137	$.112
1582401	1451B ℛ	.375"	.372	.233	.221

.250" Hex Male/Female



1582305

• 4-40 threaded
1582305: Aluminum, Iridite (clear)
1582330: Brass, zinc plated

Minimum order 5 pieces

Part No.	Product No.	Hex Length	5	100	1000
1582305	8403 ℛ	.750"	$.52	$.327	$.265
1582330	8713 ℛ	.250"	.40	.225	.176

.250" Hex Male/Female

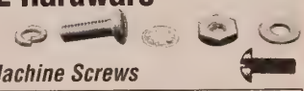


• 6-32 threaded
• Aluminum, Iridite (clear)

Minimum order 5 pieces

Part No.	Product No.	Hex Length	5	100	1000
1582321	8413	.375"	$.329	$.257	$.221

SAE Hardware



• Zinc-plated steel

Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece multiple 100	1000
40952	4-40 ℛ	Std	.250	$.021	$.013
40970	4-40 ℛ	Std	.375	.018	.015
106810	4-40 ℛ	Std	.500	.043	.031
106543	6-32 ℛ	Std	.250	.018	.013
42446	6-32 ⊕	Std	.375	.019	.014

Hex Nuts

38165	2-56 ℛ	Std	.183	$.024	$.016
40943	4-40 ℛ	Std	.243	.027	.014
42420	6-32 ⊕	Std	.306	.021	.017

Flat Washers

211131	4	—	.237	$.019	$.014
106826	4 ℛ	—	.281	.034	.023
106833	6 ⊕	—	.373	.025	.023

Internal Tooth Lock Washers

106850	4 ⊕	—	.258	$.007	$.005
106868	6 ⊕	—	.277	.018	.014

Split Lock Washers

106789	2 ⊕	—	.161	$.024	$.016
211140	4	—	.201	.031	.021
40977	4 ⊕	—	.242	.02	.015
42463	6 ℛ	—	.240	.018	.014

3M Adhesive Rubber Feet

These durable, pressure sensitive, adhesive-backed urethane bumpers provide many high performance advantages: adhere quickly and stay in place on a variety of surfaces, resist marring and staining on surfaces, and give excellent skid and abrasion resistance.

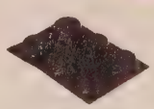


Fig. 1

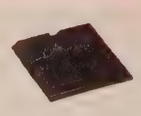


Fig. 2

Bumpon™ Protective Products

Part No.	Product No.	Type	Fig.	Pack	W" x H"	1	10	50
142658	SJ5012BLKC ℛ	Black cylindrical	1	100	.50 x .14	$6.99	$5.99	$5.49
142771	SJ5008BLKC ℛ	Black square	2	100	.50 x .12	7.99	5.99	4.99
142682	SJ5018BLKC ℛ	Black square	3	100	.50 x .23	10.49	8.99	7.99
126981	SJ5023BLK4 ℛ	Black square	4	4	.81 x .30	1.95	1.75	1.59
142666	SJ5023BLKC ℛ	Black square	4	100	.81 x .30	14.99	12.99	10.99

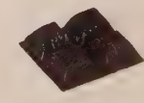


Fig. 3

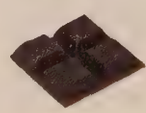


Fig. 4

ℛ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

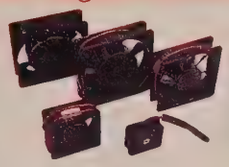
Component Grab Bags

Color Code Legend
New Sale Lower$ QtySave

Additional Grab Bags are available online at www.Jameco.com/Electromechanical


135394 – Electrolytic


18294 – Toy Motors


149649 – Fans


135271 – LEDs


169578 – Photocells


55968 – Spacers


319600 – Cabinet

* "LB" grab bag quantities and weights are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced towards the bottom of the page.

Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 asst. ceramic disc capacitors	0.2	$5.95	$5.39
135335	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps	1.0	15.55	13.79
135458	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	5.95	5.39
135394	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps radial, axial, snap (photo above)	1.5	13.85	12.29

Resistors, Trimmers and Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104	GB116	200 asst. 1/4W resistors (5&10%)	0.1	$5.49	$4.95
135351	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0	14.95	13.49
18139	GB117	200 asst. 1/2W resistors (5&10%)	0.2	6.85	6.15
18278	GB174	100 assorted 1/4W & 1/2W single-turn pots (100Ω to 5MΩ assorted values)	0.2	8.35	7.50

Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	$8.75	$7.69
135378	GB165LB*	1 lb. (135 pcs) asst. #18235 switches	1.0	18.95	16.95
18294	GB182	5 asst. toy DC motors (1.5–24V)	1.1	7.95	7.49
149649	GB193	5 asst. AC&DC fans (photo above)	4.5	8.75	7.69

Schwab's School Selection

$77.03 Value

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.


What's your suggestion?

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	3.3	$48.75	$42.64
319600	GB197R	20 drawer component cabinet	4.7	15.95	13.95

Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2	$8.75	$8.29
135280	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	20.89	20.26
145242	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	22.85	21.75
105620	GB120	100 asst. sockets (DIP IC, PGA)	0.3	6.55	5.95
135386	GB120LB*	1 lb. (260 pcs) assorted sockets (DIP, PGA, SIMM, SIP, DIN)	1.0	15.55	13.79

Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961	GB107	200 assorted diodes (zener, switching, silicon)	0.1	$6.85	$6.15	$5.51
18171	GB127	100 assorted transistors (NPN, PNP, power)	0.1	6.85	6.15	5.51

LEDs, Displays and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 assorted sizes & colored LEDs (T1 & T1¾ round and rectangular)	0.1	$7.29	$6.61	$5.93
18323	GB186	500 asst. sizes #18041 LEDs	0.3	19.95	17.95	15.95
135271	GB110LB*	1 lb. (1900 pcs) asst. #18041 LEDs	1.0	45.85	41.77	39.73
18201	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5	11.95	8.94	8.03
169578	GB125	100 asst. values photocells	0.2	19.95	18.49	16.95

Spacers and Standoffs Assortments

• Round • Hex • Aluminum • Brass • Steel • Plastic • Nylon

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
55968	GB140	100 asst. 4-40, 6-32, 8-32 round/hex, alum/brass/nylon spacers	0.3	$21.55	$19.79	$17.94
135423	GB140LB*	1 lb. (310 pcs) same as P/N 55968	1.0	34.95	31.95	28.00

Hardware Assortments

• 2-56 • 4-40 • 6-32 • 8-32 • Nuts • Washers
• Screws • Lock Washers • Plastic • Steel • Brass • Aluminum

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0	$7.15	$6.42	$5.75
171635	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571 (above)	3.0	15.55	13.79	11.94

DC Brushless Fans

Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
131247	Adda R	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	$11.35	$10.22	$8.17	$7.70
206157	Sunon R	GM0502PFV3-8.GN	5	1.00 x 1.00 x 0.40	1.8	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	12.85	11.58	10.81	8.10
695050	Sunon	GM0502PFV2-8	5	1.00 x 1.00 x 0.40	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	11.29	9.25	8.31	7.72
1585397	Sunon	GM0502PFB1-8	5	1.00 x 1.00 x 0.40	3.5	Ball	130	0.7	UL/CUL	25	6"	9.95	8.95	7.85	6.75
1708481	Sunon	KDE0502PHB3-8 (MS)	5	1.00 x 1.00 x 0.60	1.8	Ball	80	0.4	UL/CUL	16	4"	8.95	7.95	6.95	5.90
1708457	Sunon	KDE0504PEB3-8 (MS)	5	1.60 x 1.60 x 0.23	3.5	Ball	90	0.45	UL/CUL/TUV	20	6"	9.49	8.49	7.45	6.29
1581249	Sunon	KDE0504PFB3-8	5	1.60 x 1.60 x 0.40	4.6	Ball	70	0.35	UL/CUL	23.5	12"	8.95	7.95	7.15	6.49
196373	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
1581265	Sunon	KDE0504PFS1-8	5	1.60 x 1.60 x 0.40	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.25	4.49
1585442	Sunon	KDE0504PFB2 (MS)	5	1.60 x 1.60 x 0.40	7.0	Ball	140	0.7	None	27	12"	8.95	8.05	6.95	5.95

R RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

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DC Brushless Fans


206157


695050

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354933

Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
1809936	Sunon	KDE0505PHB2	5	2.00 x 2.00 x 0.60	12.7	Ball	380	1.9	UL/CUL/TUV/CE	27.8	12"	$8.95	$6.75	$5.95	$5.49
1809944	Sunon	KDE0506PHB3	5	2.00 x 2.36 x 0.60	15.2	Ball	240	1.2	UL/CUL/TUV/CE	26.5	12"	7.95	7.15	6.29	5.35
1708431	Sunon	KD0506PHB2	5	2.36 x 2.36 x 0.60	18.5	Ball	380	1.9	UL/CUL/TUV/CE	32	12"	7.49	6.75	5.95	4.95
355493	Sunon	KD0506PTS3	5	2.36 x 2.36 x 1.00	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/ conn	6.95	6.25	5.59	4.49
1776257	Delta ♠	AFB0605MB	5	2.36 x 2.36 x 1.50	13.5	Ball	200	1.0	UL/CSA/VDE/CE	29	12.9"	12.49	11.25	9.95	8.39
1708449	Sunon	KDE1202PFB1-8 (V)	12	1.00 x 1.00 x 0.40	3.1	Ball	83	1.0	UL/CUL	33	6"	12.49	11.25	9.95	8.39
1708465	Sunon	KDE1203PFB2-8 (MS)	12	1.18 x 1.18 x 0.40	3.0	Ball	66	0.8	UL/CUL	25	6"	9.95	8.95	7.85	6.65
212783	Sunon	KDE1203PFB1-8	12	1.18 x 1.18 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	10.95	9.85	8.75	5.95
1928134	Adda	AD0312HB-D50	12	1.18 x 1.18 x 0.60	3.5	Ball	110	1.3	UL/CUL/TUV/CE	22.5	3" w/ conn	10.95	10.05	8.95	7.60
212759	Sunon ⊕	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	10.75	9.65	7.25
212760	Sunon ♻	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	10.76	9.68	8.06
212741	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	11.19	10.02	8.01	6.02
210797	Sunon ♻	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
355418	ReliaPro	JR-DCF1241010S1	12	1.60 x 1.60 x 0.40	5.2	Sleeve	60	0.72	UL/CUL/TUV/CE	22.6	11.5"	3.25	3.03	2.64	1.98
279611	Toyo	T401012VH	12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	4.95	4.49	3.75	2.95
189691	Sunon	KD1204PFS1-8	12	1.60 x 1.60 x 0.40	6.6	Sleeve	60	0.7	UL/CUL/TUV/CE	30	12"	7.95	7.16	5.72	4.29
1708561	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	6.5	Ball	50	0.6	UL/CUL/TUV	24	12"	4.95	4.49	4.19	3.79
212717	Sunon ♻	KDE1204PFV2.11.MS.A.GN	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	5.99	4.79	3.59
1585469	Y.S. Tech	FD1240107B-2N	12	1.60 x 1.60 x 0.40	6.6	Ball	90	1.08	UL/CUL/TUV	29	6"	6.95	6.25	5.49	4.49
290010	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn	5.99	5.57	5.00	3.75
1928054	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	2.5" w/ conn	7.49	6.85	6.15	5.25
1581257	Sunon	KDE1204PFS2-8	12	1.60 x 1.60 x 0.40	7.0	Sleeve	90	1.1	UL/CUL	28	12"	7.95	7.49	6.59	4.95
212725	Sunon ♻	KDE1204PFV1	12	1.60 x 1.60 x 0.40	8.3	Vapo	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.89	6.22	4.98	3.73
1585434	Sunon	KDE1204PFB1 (MS)	12	1.60 x 1.60 x 0.40	8.5	Ball	110	1.3	UL/CUL	35	12"	7.95	7.15	6.29	5.35
1708473	Sunon	KDE1204PFVX11.MS.A	12	1.60 x 1.60 x 0.40	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	7.95	7.15	6.29	5.35
1809856	Sunon	GM1204PKV3-A	12	1.60 x 1.60 x 0.80	6.3	Vapo	50	0.6	UL/CSA/TUV	18	12"	9.95	8.95	7.85	6.75
195899	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.16	5.72	4.29
279620	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	6.49	5.95	4.95	3.95
249375	Adda	ADO412HB-C56[1]	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	2"	8.95	8.06	6.44	4.83
687754	Sunon	KDE1204PKSX-8	12	1.60 x 1.60 x 0.80	9.5	Sleeve	90	1.1	—	28	11"	6.95	6.49	5.95	4.95
206165	Sunon ♻	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	17"	6.59	6.13	5.93	5.65
1928118	Adda	AD4012HB-C50	12	1.60 x 1.60 x 0.80	10.5	Ball	100	1.2	UL/CUL/TUV/CE	31.9	12"	8.95	8.25	7.39	6.25
1585291	Sunon	GM1204PKVX-A	12	1.60 x 1.60 x 0.80	10.8	Vapo	130	1.60	UL/CUL/CSA	27.5	5"	7.49	6.95	5.95	5.49
212688	Sunon ♻	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/VDE	29	12"	8.49	7.68	6.67	6.00
1918809	Jamicon	KF0510B1M	12	2.00 x 2.00 x 0.40	9.27	Ball	80	0.8	UL/CUL/TUV/CE	26.6	10.5"	8.95	8.05	7.10	5.95
1708588	Sunon	KD1205PFS2H	12	2.00 x 2.00 x 0.40	11	Sleeve	91.6	1.1	UL/CUL/TUV	26	12"	7.65	6.85	5.95	4.95
1809830	Sunon	KDE1205PFB2-8	12	2.00 x 2.00 x 0.40	11.5	Ball	100	1.2	UL/CUL/TUV	28.5	12"	8.95	8.49	7.49	6.25
1809821	Sunon	GM1205PFVX-AR	12	2.00 x 2.00 x 0.40	12.4	Vapo	80	1	UL/CUL/TUV	36	12"/3 leads	7.95	6.95	6.29	5.49
1810005	Sunon	KDE1205PHB3	12	2.00 x 2.00 x 0.60	10.2	Ball	60	0.7	UL/CUL/TUV/CE	22.5	12"	5.95	5.49	4.95	4.49
139602	Adda ♻	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	9.15	8.24	6.59	4.94
1809813	Sunon	GM1205PHV1-AR	12	2.00 x 2.00 x 0.60	17	Vapo	130	1.5	UL/CUL/TUV/CE	33	12"	7.95	7.49	6.49	4.95
1585418	Sunon	KDE1206PFS3-8	12	2.36 x 2.36 x 0.40	11.3	Sleeve	70	0.8	UL/CUL	28.5	12"	6.95	6.49	5.75	4.59
354933	Delta	EFB0612MA	12	2.36 x 2.36 x 0.40	15.5	Ball	120	1.4	UL/CSA/VDE/CE	29	12"/3 leads	7.99	7.17	5.75	4.31
687800	Sunon	KDE1206PFS1-8	12	2.36 x 2.36 x 0.40	16.5	Sleeve	120	1.4	UL/CUL/TUV	34.5	11"	7.95	7.49	6.75	4.49
1928046	Adda	AD0612LX-D70GL	12	2.36 x 2.36 x 0.60	12	Hypro	90	1.08	UL/CUL/TUV/CE	27.2	8"	8.95	8.49	7.65	6.75
195944	Adda ⊕	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	7.49	6.69	5.45	4.15
1585400	Sunon	KDE1206PHB3	12	2.36 x 2.36 x 0.60	15	Ball	60	0.7	UL/CSA/CE	26	12"	8.75	7.89	7.09	6.39
249069	Jamicon ♻	JF0615B1H-000-243	12	2.36 x 2.36 x 0.60	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	9.09	8.18	6.95	5.22
687771	Sunon	KDE1206PHS1	12	2.36 x 2.36 x 0.60	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	10" w/ conn	7.95	7.49	6.49	4.49
1537141	Sunon	KDE1206PHB1	12	2.36 x 2.36 x 0.60	21	Ball	150	1.8	UL/CUL/CE	37.5	12"/3 leads	7.95	7.15	6.49	5.95
144161	Adda ♻	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	9.49	8.49	6.99	5.99
1809961	Sunon	KDE1206PKV3.13.MS.A	12	2.36 x 2.36 x 0.80	15	Vapo	70	0.8	UL/CUL/TUV/CE	25	12"	8.95	8.49	7.49	6.25
1928126	Adda	AD0612HB-C70GL	12	2.36 x 2.36 x 0.80	16.3	Ball	160	1.92	UL/CSA/TUV/CE	31	12"	11.49	10.50	9.49	8.05
189595	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	5.95	5.36	4.30	3.23
1708529	Sunon	KDE1206PTV3 (MS)	12	2.36 x 2.36 x 1.00	16	Vapo	58	0.7	UL/CUL/TUV/CE	21	12"	5.95	5.35	4.75	3.95
1536923	Jamicon	JF0625B1M	12	2.36 x 2.36 x 1.00	17.6	Ball	230	2.76	UL/CUL/TUV/CE	33.6	10"	5.49	4.95	4.49	3.95
136143	Delta ✪	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	5.36	4.29	3.22

[1] **249375:** Speed sensor ✪ Blue Part No. = Limited Quantity Available

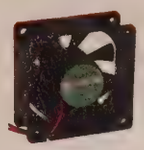
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♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

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Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
1810101	Japan Servo	TUDC12Z4F-022	12	2.36 x 2.36 x 1.00	19	Ball	140	1.8	UL/CSA/TUV	32	5" w/ conn	$9.49	$8.55	$7.49	$6.35
1919140	Sunon	KD1206PTB2(2)FGN[1]	12	2.36 x 2.36 x 1.00	19.3	Ball	87	1.0	UL/CUL/TUV/CE	30	12" w/ conn	6.75	6.75	5.75	5.49
150422	Jamicon ♻	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	7.29	6.49	5.49	4.79
1536923	Jamicon	JF0625B1M	12	2.36 x 2.36 x 1.00	17.6	Ball	230	2.76	UL/CUL/TUV/CE	33.6	10"	5.49	4.95	4.49	3.95
195911	Sunon ♻	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	7.99	5.92	5.31	3.98
1708511	Sunon	KDE1206PTS3	12	2.36 x 2.36 x 1.00	16	Sleeve	92	1.1	UL/CSA/TUV/CE	25	12"	5.95	5.35	4.69	3.95
1809928	Sunon	KDE1206PTB1.MS	12	2.36 x 2.36 x 1.00	23.5	Ball	150	1.8	UL/CUL/TUV/CE	34.5	11.5"	6.95	6.25	5.50	4.49
1810013	Sunon	KDE1206PTV1.MS	12	2.36 x 2.36 x 1.00	23.5	Ball	150	1.8	UL/CUL/TUV/CE	33.5	12"	5.95	5.49	4.75	3.95
1776265	Delta ♠	FFB0612EHE	12	2.36 x 2.36 x 1.50	50.2	Ball	800	9.6	UL/CSA/VDE/CE	54.5	12.8"	17.95	15.95	11.86	11.04
401269	Delta	AFB0812LB	12	3.15 x 3.15 x 0.60	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	9.35	6.81	6.40	4.80
109081	Adda ⊕ ✪	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
1708570	Sunon	KD1208PHB1-AH	12	3.15 x 3.15 x 0.60	35	Ball	240	2.9	UL/CUL/TUV/CE	39.5	12"	8.49	7.65	6.75	5.75
1809987	Sunon	KDE1208PHV1.13.MS.A	12	3.15 x 3.15 x 0.60	40	Vapo	200	2.4	UL/CUL/TUV/CE	34	12"	8.95	8.05	7.05	5.95
141921	Adda ♻	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	7.65	7.22	6.85	6.51
1708596	Sunon	KD1208PKB3(2).H	12	3.15 x 3.15 x 0.80	31	Ball	108	1.3	UL/CULTUV/CE	33	12"	5.95	5.35	4.75	3.95
1537301	Panafio	FBA08A12L	12	3.15 x 3.15 x 1.00	24	Sleeve	68	0.82	UL/CSA	21	11.5"	7.95	7.49	6.59	5.25
16993	Various ⊕ ✪	FAN7315SL[2]*	12	3.15 x 3.15 x 1.00	25-40	Sleeve	120-200	1-2	UL/CSA	25	4-12"	9.25	8.31	6.64	4.98
75361	Various	FAN6315BL*	12	3.15 x 3.15 x 1.00	25-40	Ball	120-200	1-2	UL/CSA	25	4-12"	5.95	5.36	4.28	3.21
688597	NMB	3110GL-B4W-B19	12	3.15 x 3.15 x 1.00	24.7	Ball	100	1.2	UL/CSA/TUV/CE	22	7" w/ conn.	4.95	4.49	3.95	3.49
286926	Toyo	USTF802512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	7.49	6.75	5.95	4.25
154289	Sunon ♻	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	7.49	6.79	5.99	4.99
123530	Adda ♻	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	8.35	7.52	6.00	4.50
265578	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35	5"	5.29	5.18	5.07	4.96
1776273	Delta ♠	AFB0812H	12	3.15 x 3.15 x 1.00	35.3	Ball	160	1.9	UL/CSA/VDE/CE	31	12"	13.75	9.09	8.59	8.26
1810030	Sanyo Denki	9A0812H401	12	3.15 x 3.15 x 1.00	36.4	Ball	130	1.56	UL/CSA/TUV	29	12"/3 leads	8.95	8.05	7.05	5.95
1537387	Sunon ♻	KD1208PTB213.(2).GN	12	3.15 x 3.15 x 1.00	37	Ball	110	1.3	UL/CUL/TUV/CE	32	11.5" w/ conn.	8.95	8.49	7.95	7.49
1928038	Adda	AD0812HS-A70GL	12	3.15 x 3.15 x 1.00	38.6	Sleeve	250	3.0	UL/CSA/TUV/CE	34.4	12"	6.95	6.29	5.39	4.99
1926100	Adda	AD0812HX-A70GL	12	3.15 x 3.15 x 1.00	38.6	Hypro	250	3.0	UL/CSA/TUV/CE	34	12"	7.49	6.85	6.15	5.25
1585477	Sunon	KD1208PTS1-13	12	3.15 x 3.15 x 1.00	40	Sleeve	160	1.90	UL/CUL/TUV/CE	33	12"	4.95	4.49	3.95	3.49
1810021	Sunon	KDE1208PTV1.13.MS.A	12	3.15 x 3.15 x 1.00	40	Vapo	160	1.9	UL/CUL/TUV/CE	33	12"	5.95	5.49	4.95	4.49
1708490	Sunon	KDE1208PTB1-13.MS(2)A	12	3.15 x 3.15 x 1.00	41	Vapo	150	1.8	UL/CUL/TUV/CE	35	12"	8.95	7.95	6.59	5.75
206181	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	7.15	6.47	5.82	5.22
355400	ReliaPro ⊕ ✪	JR-DCF-128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5" leads	7.05	5.10	4.80	4.56
355401	ReliaPro ♻	JR-DCF-128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.89	5.71	5.39	4.04
1810110	Sunon	KDE1208PTB1-6A	12	3.15 x 3.15 x 1.00	42.5	Ball	190	2.3	UL/CUL/TUV/CE	36.5	10"/3 leads	8.95	8.05	7.05	5.95
1581273	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	12"	4.95	4.49	3.95	3.49
1918729	Jamicon	JF0825S1SR	12	3.15 x 3.15 x 1.00	45.5	Sleeve	260	3.12	UL/CUL/TUV/CE	35.8	12" w/ conn.	6.95	6.49	5.85	4.95
421526	Panasonic	FBA08A12U-1AZ	12	3.15 x 3.15 x 1.00	47	Sleeve	360	4.32	UL/CSA	38.2	11"	6.69	6.02	4.82	3.61
1809995	Sunon	KDE1208PTBX-6A(318)	12	3.15 x 3.15 x 1.00	50.6	Ball	360	4.3	UL/CUL/TUV/CE	40.5	12"	8.49	7.95	6.95	5.95
1928089	Adda	AD0912L$-A70GL	12	3.63 x 3.63 x 1.00	32.4	Sleeve	130	1.6	UL/CUL/TUV/CE	23.5	12"	10.95	9.95	9.49	8.25
1928003	Adda	AD0912MB-A71GL	12	3.63 x 3.63 x 1.00	44.2	Ball	170	2.0	UL/CUL/TUV/CE	32.7	12"	8.95	8.25	7.39	6.25
1928097	Adda	AD0912LX-A70GL	12	3.63 x 3.63 x 1.00	37.9	Hypro	120	1.44	UL/CUL/TUV/CE	26.5	12"	10.95	9.95	9.49	8.25
196023	Jamicon	JF0925B1M	12	3.63 x 3.63 x 1.00	45.4	Ball	200	2.4	UL/CSA/TUV	34	10"	6.05	5.43	4.88	4.32
154641	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.80	5.44	4.08
190984	Sunon ♻	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	8.69	7.83	6.27	5.48
162739	NMB (Smart Fan) ⊕	3610KL-04W-B56†	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.95	7.16	5.72	4.29
689215	Sunon	KDE1209PTBX-6A	12	3.63 x 3.63 x 1.00	56	Ball	360	4.3	UL/CUL/CE	39	11"	7.95	7.16	5.72	4.29
102963	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	8.35	7.52	6.01	4.51
1776281	Delta ♠	AFB0912HH	12	3.63 x 3.63 x 1.00	57.9	Ball	250	3.0	UL/CSA/VDE/CE	38	12"	13.75	9.09	8.59	8.26
174140	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	7.99	7.23	6.09	4.99
689231	Sunon	KDE1212PTS3-6A	12	4.68 x 4.68 x 1.00	67	Sleeve	200	2.4	UL/CUL/TUV/CE	35	12"	10.95	9.85	8.85	7.95
227901	Common Wealth ♻	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	13.15	11.82	10.67	9.59
363848	Mechatronics	E1225H12B	12	4.68 x 4.68 x 1.00	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	11.95	11.49	10.99	10.25
1928020	Adda	AD1212HB-A71GL	12	4.68 x 4.68 x 1.00	85.2	Ball	370	4.5	UL/CUL/TUV/CE	39.1	12"	12.49	11.49	10.35	8.75
1928011	Adda	AD1212U$-A71GL	12	4.68 x 4.68 x 1.00	98.6	Sleeve	500	6.0	UL/CUL/TUV/CE	39.1	12"	8.95	12.49	8.25	7.39
689856	Sunon	KDE1212PTB1-6A	12	4.68 x 4.68 x 1.00	90	Ball	400	4.8	UL/CUL/TUV/CE	44.5	12" w/ conn	12.95	11.59	10.49	7.87

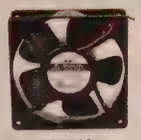
[1] **1919140:** 3-wire lock rotor [2] **16993:** Replacement for PC/XT computer power supply fan * Mfr. & specifications may vary † Temp. control: **162739** (50°C, 3 leads) ✪ Blue Part No. = Limited Quantity Available

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional DC Brushless Fans and Blowers are available online at www.Jameco.com/Fans

Call for additional OEM PRICING – we carry major manufacturers.

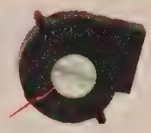

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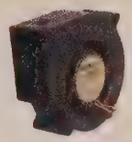

1537467

DC Brushless Fans (Continued)

NEW

Quantity Save


645028


213567

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
163619	NMB (Smart Fan)	4710NL012P535P0†	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	None	38.5	12"	$6.29	$5.68	$4.56	$3.56
1537133	Delta	WFB1212HH	12	4.68 x 4.68 x 1.00	95.4	Ball	610	7.3	UL/CSA/CE	42.5	4" w/ conn.	10.95	10.49	9.75	7.99
1585389	Japan Servo	CNDC12B4C-016	12	4.68 x 4.68 x 1.50	99	Ball	380	4.6	UL/CSA/TUV	40	12"	13.95	12.49	10.95	9.29
686516	Adda	AD1212HB-F51	12	4.68 x 4.68 x 1.50	104.8	Ball	500	6	UL/CUL/CSA/TUV/CE	42.8	11" w/ conn.	13.95	12.49	10.95	8.21
1537221	Sunon	KDE1212PMB3-6A	12	4.68 x 4.68 x 1.50	84	Ball	570	6.8	UL/CUL/CE	42	12" w/ conn.	12.95	12.49	10.95	9.25
94625	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CUL/TUV/CE	42	12" leads	11.95	11.25	10.79	9.99
1537467	Comair	JQ12B7X	12	6.77 x 5.90 x 2.00	235	Ball	2260	25.2	UL/CSA/TUV/CE	54.3	12"/3 leads	69.95	62.95	56.95	52.95
687826	Sunon	KDE2404PKB2	24	1.60 x 1.60 x 0.80	7	Ball	40	1.0	UL/CUL/TUV	29	11"	7.95	7.15	6.49	5.29
1776290	Delta ♠	EFB0424HD	24	1.60 x 1.60 x 0.80	8.5	Ball	60	1.44	UL/CSA/VDE/CE	28.5	13"	8.59	7.74	7.39	6.96
1708422	Sunon	KDE2406PHS3	24	2.36 x 2.36 x 0.60	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	7.15	6.29	5.35
687818	Sunon	KDE2406PHB3	24	2.36 x 2.36 x 0.60	15.2	Ball	50	1.2	UL/CUL/TUV	26.5	11"	8.49	7.59	6.07	4.55
1816706	NMB ♠	2406KL-05W-B50-L00	24	2.36 x 2.36 x 0.60	18.3	Ball	100	2.4	None	34	7.9"	10.49	8.15	7.99	7.80
140661	NMB✪	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	None	31	2"	5.95	5.39	4.34	3.24
174108	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	5.79	5.21	4.69	4.22
189861	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	7.95	7.49	6.75	5.95
1816888	NMB ♠	2410ML-05W-B30-E00	24	2.36 x 2.36 x 1.00	19	Ball	60	1.44	None	31	11.8"	11.29	10.53	10.19	9.87
227248	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.75
687797	Sunon	KDE2408PTS3-6	24	3.15 x 3.15 x 1.00	29.4	Sleeve	60	1.5	None	24.5	4" w/ conn.	8.55	8.17	7.06	5.30
1928071	Adda	AD0624HB-A70GL	24	2.36 x 2.36 x 1.00	24	Ball	150	3.6	UL/CSA/TUV/CE	33.9	12"	8.95	8.25	7.40	6.29
1816925	NMB	2410ML-05W-B60-E00	24	2.36 x 2.36 x 1.00	25	Ball	130	3.12	None	36	11.8"	9.99	9.11	8.23	7.59
1809848	Sunon	PMD2406PTB1-A	24	2.36 x 2.36 x 1.00	35.8	Ball	220	5.3	UL/CUL/TUV/CE	48.8	12"	11.49	10.35	9.10	7.75
1809952	Sunon	KDE2408PTB1-6A	24	3.15 x 3.15 x 1.00	42.5	Ball	110	2.6	UL/CUL/TUV/CE	36.5	12"	8.95	8.49	7.49	6.25
290029	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	7.42	6.59	5.75
1581071	Pabst	8124K	24	3.15 x 3.15 x 1.50	35	Ball	125	3.0	UL	39	12"	19.95	17.95	16.15	14.95
662653	Panaflo	FBO8A24M1A	24	3.15 x 3.15 x 1.00	32.1	Sleeve	100	2.4	UL/CSA	28	11.5"	7.95	5.95	4.95	4.49
136161	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.59	8.64	7.77	6.99
1809864	Sunon	PMD2408PMB1-A	24	3.15 x 3.15 x 1.00	24	Ball	400	9.6	UL/CUL/TUV	55.2	12"	17.49	14.35	12.59	10.75
1708502	Sunon	KDE2405PTS3-6	24	3.63 x 3.63 x 1.00	39	Sleeve	112	2.7	UL/CUL/TUV/CE	27	12"	9.49	7.29	6.69	6.09
189886	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.95
695042	Sunon	KDE2409PTB1-6	24	3.63 x 3.63 x 1.00	51	Ball	140	3.4	None	37	12"	7.49	6.45	6.03	5.71
174094	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	7.49	6.44	6.03	4.52
1809881	Sunon	KD2412PTB1-6A	24	4.68 x 4.68 x 1.00	90	Ball	220	5.3	UL/CUL/TUV/CE	44.5	12"	13.95	12.55	10.95	9.25
1708537	Sunon	KDE2412PMS3-6A	24	4.68 x 4.68 x 1.50	83	Sleeve	160	4	UL/CUL/TUV/CE	34	12"	14.95	13.45	11.75	9.95
694516	Jamicon	JF1238B2LR130-065R	24	4.68 x 4.68 x 1.50	84.5	Ball	130	3.12	UL/CSA/TUV/CE	33.8	9.5"	19.19	14.21	13.25	9.94
153411	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	13.79	12.42	9.99	7.49
694444	Jamicon	JF123852MR130-065R	24	4.68 x 4.68 x 1.50	101.3	Sleeve	220	5.28	UL/CSA/TUV/CE	39.1	9.5"	19.19	14.21	12.75	9.56
694524	Jamicon	JF1238B2MR130-065R	24	4.68 x 4.68 x 1.50	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9.5"	19.19	14.21	12.75	9.56
1809901	Sunon	KD2412PMB1-6A	24	4.68 x 4.68 x 1.50	108	Ball	280	6.7	UL/CUL/TUV/CE	42	12"	13.95	12.55	10.95	9.25
694532	Jamicon	JF1238B2HR130-065R	24	4.68 x 4.68 x 1.50	118.7	Ball	310	7.44	UL/CSA/TUV/CE	43.8	9.5"	19.19	14.21	13.25	9.94
1809910	Sunon	KD2412PMSX-6A	24	4.68 x 4.68 x 1.50	119	Sleeve	300	7.2	UL/CUL/TUV/CE	45	12"	12.95	12.55	10.95	9.25

† Temp. control: **163619** (35°C) ✪ Blue Part No. = Limited Quantity Available

DC Brushless Blower

Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
645028	Evercool	EC9733H12C-B	12	3.83 x 3.64 x 1.27	23.6	Sleeve	260	3.12	CE	33	14" w/ conn.	$20.15	$14.16	$13.30	$11.97

Fan Guards and Filters

Quantity Save LOWER PRICES

Compatible with DC and AC Fans – pages 138-142

- Guards and filters fit all fans. Please match by size dimension. Example: P/N 300557 fan (3.15") matches P/N 31923 metal guard (3.15").

Part No.	Description	1	10	100	250
120037	2.36" metal (chrome) guard	$.63	$.476	$.425	$.384
687666	2.36" steel (anodized) guard	.95	.85	.74	.56
31924	3.15" metal (chrome) guard	.54	.52	.51	.46
1811235	3.15" metal (chrome) guard ♠	1.65	1.26	1.23	1.19
123511	3.63" metal (chrome) guard	.72	.56	.48	.36
1811219	3.63" metal (chrome) guard ♠	1.75	1.35	1.31	1.27
25734	4.68" metal (chrome) guard	1.09	.98	.88	.79
1811227	4.68" metal (chrome) guard ♠	1.85	1.42	1.38	1.34

Part No.	Description	1	10	100	250
695068	4.68" steel (black) guard	$1.09	$.98	$.78	$.59
695076	5.00" metal (chrome) guard	1.59	1.39	1.11	.83
1811198	6.00" metal (chrome) guard	1.59	1.39	1.11	.83
138562	3.15" plastic guard w/ mesh	1.59	1.45	1.29	1.09
229665	3.63" plastic guard w/ mesh ⊕	1.75	1.55	1.25	.95
196817	4.68" plastic guard w/ mesh	2.15	1.71	1.53	1.38
138579	3.15" alum. washable filter ⊕	2.95	2.66	2.12	1.75
130105	4.68" alum. washable filter	3.49	3.19	2.55	1.92


687666


138579/130105

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

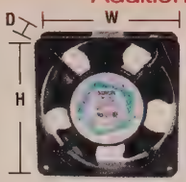
AC Tube Axial Fans

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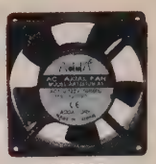

212600



275793

- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 11 to 226 CFM

Fan Power Cords Below


206309


209365

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
213867	Fulltech ≷	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	$15.95	$14.39	$12.95	$11.65
162704	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	14.71	14.31	13.91
146078	Common Wealth ≷	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	13.99	12.99	11.99	10.99
300557	Fulltech ≷	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300258	Fulltech ≷	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	11.79	10.58	10.39	9.87
300582	Fulltech ≷	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	11.35	8.92	8.47	8.05
300303	Fulltech ≷	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	11.79	10.58	10.39	9.87
300329	Fulltech ⊕	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	14.19	12.52	12.11	11.71
300600	Fulltech ≷	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	13.39	12.04	11.26	10.67
300389	Fulltech ≷	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
75459	Sunon ⊕ ✪	SF11592A-1092H	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	15.95	14.39	12.95	11.65
75433	Sunon ≷	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	13.19	11.87	9.50	7.13
303467	Sunon ≷	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	17.39	16.69	15.07	12.75
1708617	Sunon	SP103AT-1122LBT	115	4.68 x 4.68 x 1.00	54	Ball	110	11.5	CE	40	Terminals	12.95	12.15	10.65	9.25
124063	Sunon ≷	SP101AT-1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
1810048	Sunon ≷	SP101AT-1122HBL.GN	115	4.68 x 4.68 x 1.00	78	Ball	180	18	UL/CUL/TUV/CE	46	12" leads	11.95	11.75	10.75	9.95
1918796	Jamicon	KA1238L1B0A0-T	115	4.68 x 4.68 x 1.50	78	Ball	200	12	UL/CUL/CE	38	Terminals	13.95	12.75	11.49	9.95
1918770	Jamicon	KA1238H1B110-T	115	4.68 x 4.68 x 1.50	110	Ball	300	24	UL/CUL/CE	45	Terminals	13.95	12.25	10.75	9.49
303408	Sunon ≷	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	16.45	15.35	14.25	13.15
303415	Common Wealth ⊕	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.26	12.20	9.46
303482	Fulltech ⊕	UF12A11SWL	115	4.68 x 4.68 x 1.50	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	13.35	12.02	9.62	7.22
303361	Fulltech ≷	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	13.89	12.46	11.62	11.05
1585371	Sunon	SP103A-1123LBL	115	4.68 x 4.68 x 1.50	78	Ball	130	11	UL/CSA/TUV	39	6" w/ conn.	10.95	10.49	9.45	7.95
300791	Fulltech ⊕ ✪	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111895	Common Wealth ≷	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	16.75	15.11	13.62	12.23
106586	Common Wealth ≷	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	16.85	15.19	13.67	12.30
16935	Common Wealth ≷	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	17.89	16.12	14.49	13.06
212600	Fulltech ≷	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.39	14.22	13.03	11.84
275793	Sunon ≷	SP101A-1123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CUL/CE	50	Terminals	13.45	12.58	11.23	10.67
1707163	Sunon ≷	SP101A-1123HB2.GN	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CSA/TUV	50	12" leads	12.95	11.95	10.49	8.95
206309	Adda ≷	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	UL/CUL/CE	48	Terminals	14.95	13.00	10.76	8.96
102884	Sunon ≷	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	15.59	14.54	13.50	12.46
1585320	Sunon	A1123HBL	115	4.68 x 4.68 x 1.50	117	Ball	250	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.75	9.95
108725	Fulltech ≷	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	36.59	34.49	30.76	23.07
212582	Fulltech ≷	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	29.95	29.60	26.61	26.05
189683	Fulltech ⊕ ✪	UF15PC12BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	32.89	30.25	28.71	21.53
189684	Fulltech ≷	UF15PC12BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	32.89	30.25	28.71	21.53
1585311	Sunon	A1175-HBT	115	6.75 x 5.90 x 2.00	239	Ball	230	27	UL/CUL/TUV/CE		Terminals	33.35	29.90	26.39	21.26
1810128	Common Wealth	FP-108AX-S1-B	220	3.15 x 3.15 x 1.00	21	Ball	120	13	UL/CSA/TUV/CE	29	13" leads	11.49	10.25	9.10	7.75
355629	Fulltech ⊕	UF-80A23-BTH	220	3.15 x 3.15 x 1.50	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	11.89	10.69	10.49	7.87
100918	Sunon ≷	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	11.09	8.89	8.00	6.78
209365	Bi-Sonic ⊕	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	14.89	13.41	11.17	10.60
1918753	Jamicon	KA1238H2B01	220	4.68 x 4.68 x 1.50	82	Ball	200	23	UL/CUL/TUV/CE	42	Terminals	13.49	11.95	10.95	8.49
302244	Comair ≷	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	13.15	11.83	10.40	7.80
1918761	Jamicon	KA1238H2B12	220	4.68 x 4.68 x 1.50	110	Ball	200	24	UL/CUL/TUV/CE	45	Terminals	13.49	11.95	10.95	8.49
303459	Sunon ≷	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102892	Sunon ≷	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65
1585346	Sunon	A2123-HBL	220	4.68 x 4.68 x 1.50	117	Ball	120	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.75	9.95
1585338	Sunon	A2123-HBT	220	4.68 x 4.68 x 1.50	117	Ball	120	20	UL/CUL/TUV	50	Terminals	15.35	14.35	12.65	10.75
1809872	Sunon	A2175-HBT	220	6.75 x 5.90 x 2.00	203	Ball	110	25	—	51	Terminals	34.95	31.45	27.95	23.49

✪ Blue Part No. = Limited Quantity Available

Fan Guards and Filters on page 141

NEW

Fan Power Cords

- Cord type: SPT-1 (2) conductor black
- Voltage rating: 300V
- Temperature: 60°C
- Fits all terminal fans

LOWER PRICES


28564

Part No.	Description	Length	1	10	100	250
28564	Straight socket cord ⊕	24"	$.85	$.71	$.68	$.66
1819253	Straight socket cord (NMB)♠	24"	1.65	1.50	1.45	1.40
869283	Straight socket cord (COMAIR) ≷ ♠	24"	1.75	1.69	1.63	1.54

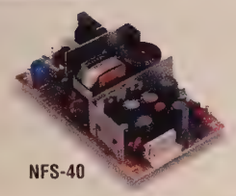
♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

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40 to 65-Watt Medical Switching AC-to-DC Power Supplies



NFS-40

40-Watt Medical Open-Frame

NFS-40 Triple Output

TOP QUALITY U.S. BRAND

- Universal AC input
- Line regulation: ±0.2%
- Input surge current: 10A @ 110VAC; 22A @ 230VAC
- Hold-up time: 18ms @ 110VAC; 132ms @ 230VAC
- Efficiency: 70% typical
- Isolation voltage: 4000VAC (input/output)
- 40W with free air convection; 50W with 20CFM forced air
- Overvoltage protection
- Short circuit protection
- 2.2 watts/in² max.
- MTBF: 170,000 hours
- Size: 5"L x 3"W x 1.2"H



MPS-60

65-Watt Medical Open Frame, Low Leakage

MPS-65 Single Output

PERFORMANCE At Value Prices

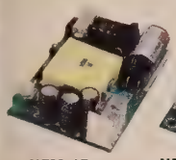
- 100% full load burn-in test
- High-efficiency, low heat generation
- 2.9 watts/in³ max.
- Working temp.: -10°C to + 60°C
- Inrush current: 20A @ 120VAC
- Soft-start circuit, limiting AC surge current
- Mating connector: P/N 104731, pg 99
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- See www.Jameco.com for specifications
- Universal AC input
- Isolation voltage: 4000VAC
- Voltage adjustment: 10%
- Leakage current: 0.3mA @ 240V
- Line regulation: ±1.0%
- Load regulation: ±2.0%
- Size: 5.0"L x 3.0"W x 1.65"H
- Weight: 0.6 lbs.
- Three-year warranty

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing 1	Pricing 10	Pricing 25
1774219	Artesyn ♠	NFS40-7908J	+5.1V@3A; +12V@2A; -12V@0.35A	40.0W	85-264@47-440	50	UL/CSA/VDE/CE	$52.89	$47.20	$47.12
221154	Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	39.95	35.95	32.55
221162	Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	41.59	39.60	29.70

* Primary Output ♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

Ultraminiature 5 to 20-Watt Power Supplies

- 100% full burn-in test
- Universal AC input/full range
- Three year warranty
- Ultra miniature size and lightweight
- UL/CUL/TUV/CE
- Short circuit, overload, overvoltage, overtemperature protection
- No load consumption



NFM-15



NFM-02

PERFORMANCE At Value Prices

5-Watt NFM-5000 Series
- Size: 2.28"L x 1.77"W x 0.75"H
- Inrush current: 25A @ 115VAC
- Pin-mount

10-Watt NFM-0100 Series
- Size: 2.56"W x 1.77"L x 0.87"H
- Inrush current: 25A @ 115VAC
- Pin-mount

15-Watt NFM-1500 Series
- Size: 2.76"L x 1.89"W x 0.87"
- Inrush current: 30A @ 115VAC
- Pin-mount

20-Watt NFM-0200 Series
- Size: 3.0"L x 2.0"W x 0.76"
- Inrush current: 30A @ 115VAC
- Chassis-mount
- Mating connector: P/Ns 463435 & 463443, see web.

Jameco Part No.	Product No.	Output Voltage@Current (min-max)	Output Power	Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing 1	Pricing 10	Pricing 25
694962	NFM-05-3.3	+3.3V@0-1.25A	4.13W	±1.5%	±1.0%	80	$21.75	$19.56	$14.67
694971	NFM-05-5	+5V@0-1A	5.0W	±1.5%	±1.0%	80	21.75	19.56	17.61
694989	NFM-05-12	+12V@0-0.42A	5.04W	±0.5%	±0.5%	150	21.75	19.56	17.61
695009	NFM-05-15	+15V@0-0.33A	4.95W	±0.5%	±0.5%	150	21.75	19.56	14.67
694997	NFM-05-24	+24V@0-0.23A	5.52W	±0.5%	±0/.5%	240	21.75	19.56	17.61
695084	NFM-10-3.3	+3.3@0-2.5A	8.25W	±1.0%	±1.0%	80	23.89	21.49	16.12
695092	NFM-10-5	+5V@0-2A	10.0W	±1.0%	±1.0%	80	23.89	21.49	19.35
695105	NFM-10-12	+12V@0-0.85A	10.2W	±0.5%	±0.5%	150	23.89	21.49	16.12
695113	NFM-10-15	+15V@0-0.67A	10.05W	±0.5%	±0.5%	150	23.89	21.49	16.12
695121	NFM-10-24	+24V@0-0.42A	10.08W	±0.5%	±0.5%	240	23.89	21.49	16.12
695148	NFM-15-3.3	+3.3V@0-3.5A	11.55W	±1.0%	±1.0%	80	28.15	25.34	19.00
695130	NFM-15-5	+5V@0-3A	15.0W	±1.0%	±1.0%	80	28.15	25.34	19.00
695156	NFM-15-12	+12V@0-1.25A	15.0W	±0.5%	±0.5%	150	28.15	25.34	19.00
695164	NFM-15-15	+15V@0-1A	15.0W	±0.5%	±0.5%	150	28.15	25.34	19.00
695172	NFM-15-24	+24V@0-0.63A	15.12W	±0.5%	±0.5%	240	28.15	25.34	19.00
695181	NFM-20-3.3	+3.3V@0-4.5A	14.85W	±1.0%	±1.5%	80	32.45	29.18	21.89
695199	NFM-20-5	+5V@0-4.4A	22.0W	±1.0	±1.5%	80	32.45	29.18	21.89
695201	NFM-20-12	+12V@0-1.8A	21.6W	±0.5%	±0.5%	150	32.45	29.19	26.28
695210	NFM-20-15	+15V@0-1.4A	21.0W	±0.5%	±0.5%	150	32.45	29.18	21.88

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

15 to 45W Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend: New Sale Lower$ QtySave

Additional Open-Frame Power Supplies are available online at www.Jameco.com/Power

15 to 45-Watt Open-Frame Power Supplies

- 100% full burn-in test
- Universal AC input

Enclosed Power Supplies on pages 146-152.


PSA15

15 & 25-Watt PSA15 & PSA25 Series: Single & Triple Outputs

- Load regulation: ±2.0%
- Line regulation: ±1.0%
- Isolation voltage: 3,000VAC
- Voltage adjustment: 5% (PSA15 only)
- Inrush current: 30A @ 120VAC
- Working temperature: 0° to + 40°C
- Size: 4.33"L x 1.57"W x 0.91"H (except 230536: 3.6"L x 2.5"W x 1.1"H)
- One-year warranty


PS-25

25-Watt PS-25 & PD-25 Series: Single & Dual Outputs

- Inrush current: 40A @ 120VAC
- Working temp.: -10°C to +60°C
- Size: 4.20"L x 2.40"W x 1.10"H
- Two-year warranty

PERFORMANCE At Value Prices


PS-45

35-Watt PS-35 Series: Single Outputs

- Short circuit/overload/overvoltage protection
- Cooling by free air convection
- Inrush current (typical): 23A/115VAC; 45A/230VAC
- Size: 4.0"L x 2.0"W x 0.94"H
- Working temperature range: -20°C to 65°C
- Two-year warranty
- Load/Line reg.: ±0.5%/±0.5%, except P/N 1918972 ±1.0%/±0.5%

PERFORMANCE At Value Prices

45-Watt PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

- Load regulation: ±3.0% (except 213728/213720: ±2.0%)
- Line regulation: ±1.0%
- Voltage adjustment: 10%
- Inrush current: 20A @ 120VAC
- Working temp.: -10°C to +60°C
- Size: 5.0"L x 3.0"W x 1.06"H
- Two-year warranty

PERFORMANCE At Value Prices

45-Watt PSA45 Series: Triple Outputs

- Load regulation: ±2.0%
- Line regulation: ±2.0%
- Inrush current: 20A @ 120VAC
- Working temp.: 0° to +50°C
- Size: 5.0"L x 3.0"W x 1.2"H
- Weight: 0.9 lbs.
- One-year warranty

Call for special versions and large quantities

Call for special versions & large quantities

MEAN WELL

For Complete Specifications visit www.Jameco.com

PHIHONG

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing 1	Pricing 10	Pricing 25
229060	Phihong ♻	PSA15LN3-120	+12V@0-1.25A	15.0W	90-264@47-63	120	UL/CUL/TUV/CE	$19.55	$17.77	$16.80
230536	Phihong ♻	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25.0W	90-264@47-63	50	UL/CUL/TUV/CE	25.15	22.63	20.31
212354	Mean Well ♻	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	21.75	19.95	18.45
392826	Mean Well ♻	PS-25-7.5	+7.5V@0-3.3A	24.8W	85-264@47-63	80	UL/CUL/TUV/CE	20.85	20.08	15.06
148604	Mean Well ♻	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	22.79	18.48	15.85
216769	Mean Well ♻	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	21.49	19.58	18.06
212346	Mean Well ♻	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	21.75	19.95	18.45
212312	Mean Well ♻	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	22.95	19.50	14.63
212338	Mean Well ♻	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	22.35	21.50	19.74
212330	Mean Well ♻	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
148690	Mean Well ♻	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	24.85	22.99	19.99
1918972	Mean Well ♻	PS-35-5	+5V @ 0-6.0A	30.0W	90-264@47-440	100	UL/CUL/TUV/CE/CB	26.95	23.95	21.95
1918956	Mean Well ♻	PS-35-12	+12V @ 0-3.0A	36.0W	90-264@47-440	120	UL/CUL/TUV/CE/CB	26.95	23.95	21.95
1919019	Mean Well ♻	PS-35-15	+15V @ 0-2.4A	36.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	26.95	23.95	21.95
1919035	Mean Well ♻	PS-35-24	+24V @ 0-1.5A	36.0W	90-264@47-440	200	UL/CUL/TUV/CE/CB	26.95	23.95	21.95
217332	Mean Well ♻	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	24.95	21.95	18.49
213728	Mean Well ♻	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	28.59	20.89	15.67
374353	Mean Well ♻	PS-45-15	+15V@0-3.5A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	16.49
213720	Mean Well ♻	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	23.76	17.82
194862	Mean Well ♻	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
194871	Mean Well ♻	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	20.99	17.99
88402	Mean Well ♻	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	32.35	24.94	22.56
229122	Phihong ♻	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	32.09	28.91	26.00

* Primary Output

Power-One — Great Prices on Special Buys

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
210841	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	$17.95	$14.95	$11.95

* Primary Output

We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to **NewProducts@Jameco.com**.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

RoHS Compliant Product ⊕ RoHS Also Available — Details on Order Info Page

65 to 150W Open-Frame Switching AC-to-DC Power Supplies

Additional Open-Frame Power Supplies are available online at www.Jameco.com/Power

65 to 150-Watt Open-Frame Power Supplies

• Universal input


PS-65


PSA075


PPS-125

UL CSA CE

Enclosed Power Supplies on pages 146-152.

65-Watt PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

- Load & Line regulation: ±1.0% to ±4.0%
- Voltage adjustment: 10%
- Working temp.: -10°C to +60°C
- Size: 5.0"L x 3.0"W x 1.65"H
- Inrush current: 20A @ 120VAC
- Two-year warranty
- Weight: 0.6 lbs.

PERFORMANCE At Value Prices

75-Watt PSA075 Series: Single Output

- Universal AC input
- Efficiency: +5V-65%; +12V-70%
- Inrush current: 40A@120VAC; 80A@240VAC
- Size: 5.0L" x 3.0W x 1.3"H
- 200CFM forced air required
- Operating temp.: 0°C to 50°C
- Overvoltage, short circuit protection

100-Watt LPS-100 Series: Single Output

- Auto-switch AC input
- Line regulation: ±0.5%
- Working temperature: -10°C to + 60°C
- Load regulation: ±1.5%, except 173463: ±0.5%
- Inrush current: 30A @ 120VAC
- Three-year warranty
- No minimum load required
- Voltage adjustment: 10%
- Size: 8.74"L x 2.44" x 1.25"W
- Weight: 0.8 lbs.

PERFORMANCE At Value Prices

120 Watt PSA-120 Series: Single Output

- Universal AC input
- Operating temp.: 0°C to 50°C
- Efficiency: +5V-70%; +12V-75%; +24V-78%
- Inrush current: 30A@115VAC; 60A@240VAC
- 30CFM forced air required
- Overload, short circuit protection
- Size: 5.0"L x 3.0"W x 1.3"H

125-Watt PPS-125 Series: Single Output

- Universal AC input
- Working temp.: -40°C to +85°C
- Load regulation: ±1.0%
- Size: 5.0"L x 3.0"W x 1.4"H

PERFORMANCE At Value Prices

150-Watt LPP-150 Series: Single Output

- Voltage adjustment: 10%
- Load regulation: 213681 ±1.0%; 213672 & 216646: ±0.5%
- Mating connector: P/N 215950, see web
- Size: 8.74"L x 2.95"W x 1.61"H
- Auto-switch AC input

PERFORMANCE At Value Prices

Call for special versions and large quantities

MEAN WELL

For Complete Specifications visit www.Jameco.com

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing 1	Pricing 10	Pricing 25
374380	Mean Well	PS-65-13.5	+13.5V@0-5.4A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	$31.99	$26.99	$23.49
216751	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	28.55	24.43	20.35
148647	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	27.69	26.68	23.20
201946	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	28.49	24.43	20.35
201954	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	28.25	25.29	21.99
194889	Mean Well	PD-65A	+5V@0.4-7A; +12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	28.89	26.39	23.09
194897	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	32.79	27.71	24.25
216734	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	38.79	30.02	22.52
216726	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	33.49	29.95	26.35
215707	Mean Well	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	33.49	27.14	24.45
1586285	Phihong	PSA075-050-R	+5V@0-11A	55.0W	90-264@47-63	100	UL/CUL/TUV/CE	29.55	28.64	27.82
1586293	Phihong	PSA075-120-R	+12@0-6.25A	75.0W	90-264@47-63	120	UL/CUL/TUV/CE	29.55	28.64	27.82
173472	Mean Well	LPS-100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	55.89	52.92	50.27
173463	Mean Well	LPS-100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	55.89	52.92	50.27
216710	Mean Well	LPS-100-48	+48V@0-2.1A	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	45.01	34.49
1586331	Phihong	PSA120-050-R	+5V@0-15A	75.0W	40-264@47-63	100	UL/CUL/TUV/CE	59.99	57.39	55.54
1586349	Phihong	PSA120-120-R	+12V@0-10A	120.0W	40-264@47-63	120	UL/CUL/TUV/CE	59.99	57.39	55.54
1586357	Phihong	PSA120-250-R	+24V@0-5A	120.0W	40-264@47-63	240	UL/CUL/TUV/CE	59.99	57.39	55.54
374089	Mean Well	PPS-125-12	+12V@0-10.5A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	93.99	79.84	74.45
301429	Mean Well	PPS-125-24	+24V@0-5.2A	124.8W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84	74.45
213681	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	71.85	67.83	64.44
213672	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	71.85	67.83	64.44
216646	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	74.59	70.41	66.89

LITEON — Great Prices on Special Buys

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
226211	Phihong ✔	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	$14.95	$12.95	$10.95
692377	Autec	UPS65-1002	+5V@0.5-3.5A; +12V@0.1-4A	65.0W	90-260@47-63	6.0x3.5x1.5	4.8x3.2x0.16	50	2.0	0.5	UL/CSA/TUV	12.95	11.49	9.95
237024	Lite-On ✔	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	—	1200	10.0	1.0	UL/CUL/TUV/CE	19.95	17.95	14.95

* Primary Output

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. ✔ This product has a RoHS equivalent, manufacturer may vary.

Color Code Legend: New Sale Lower$ QtySave

200 to 350W Open-Frame Switching AC-to-DC Power Supplies

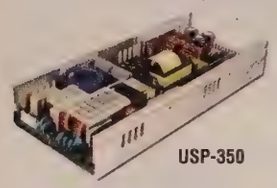
Color Code Legend: New Sale Lower$ QtySave

Additional Open-Frame Power Supplies are available online at www.Jameco.com/Power

200 to 350-Watt Open-Frame Power Supplies

Enclosed Power Supplies below & pages 147-152.

- 100% full burn-in test
- Line regulation: ±0.5%
- Three-year warranty



PERFORMANCE At Value Prices

MEAN WELL

200-Watt PPS-200 Series: Single Output

- High efficiency up to 90% (typical)
- PWM control & regulated
- Free air convection for 150W; 20.5 CFM forced air for 200W
- Short circuit, overload, overvoltage protection
- Size: 5.0"L x 3.0"W x 1.4"H
- Mating connector: P/N 104433, pg 99
- Load regulation: ±1.0%

225 & 350-Watt U Bracket Type USP-225 & USP-350 Series: Single Output

- Active AC surge current limiting
- Load regulation: ±1.0%
- Short circuit, overload, overvoltage, overtemperature protection

USP-225 Series: Single Output

- Size: 8.0"L x 4.0"W x 1.5"H
- Free air convection for 150W and forced air convection for 225W
- Mating connectors: P/N 104433 or 463435 (input), pg 99 & web; P/N 364832 (output), see web
- Working temperature: -20°C to +65°C

USP-350 Series: Single Output

- Size: 9.3"L x 4.0"W x 1.5"H
- Free air convection for 300W; 23.5 CFM forced air for 350W
- Working temp.: -10°C to +65°C

For Complete Specifications visit www.Jameco.com

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing 1	Pricing 10
668713	Mean Well	PPS-200-12	+12V@0-16.6A	199.2W	90-264@47-63	100	UL/CUL/TUV/CE	$105.89	$79.42
668721	Mean Well	PPS-200-15	+15V@0-13.3A	199.5W	90-264@47-63	100	UL/CUL/TUV/CE	149.59	145.09
668730	Mean Well	PPS-200-24	+24V@0-8.3A	199.2W	90-264@47-63	150	UL/CUL/TUV/CE	144.19	139.85
694487	Mean Well	USP-225-15	+15V@0-15A	225.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	95.24
694495	Mean Well	USP-225-24	+24V@0-9.4A	225.6W	90-264@47-63	150	UL/CUL/TUV/CE/CB	128.39	122.50
694436	Mean Well	USP-350-24	+24V@0-14.6A	350.4W	90-264@47-63	150	UL/CUL/TUV/CE	203.59	197.49

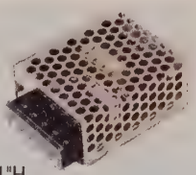
Call for special versions and large quantities

* Primary Output

15 to 25W Switching AC-to-DC Power Supplies

15-Watt Enclosed

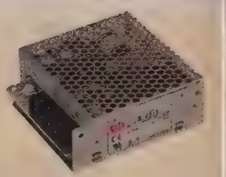
RS-15 Series



- LED indicator for power on
- All using 105°C long life electrolytic capacitors
- Withstands 300VAC surge input for 5 seconds
- Universal AC input/full range
- Size: 2.46"L x 2.0"W x 1.1"H
- Working temp. range: -20°C to 70°C
- Inrush current: 50A/240VAC
- Cooling by free air convection
- 100% full burn-in test
- Three-year warranty

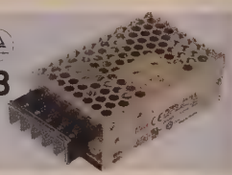
25-Watt Enclosed

S-25 Series: Single Output



- 100% full-load burn-in
- No minimum load required
- Voltage adjustment: 10%
- 1.2 watts/in³ maximum
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: 103588, pg 117
- Working temp.: -10°C to +60°C
- Mounting hardware: use P/Ns 222122, 222156, 222173 & 222164 (see web)
- See www.Jameco.com for specifications
- Two-year warranty

25-Watt Enclosed *RS-25 Series: Single Output*



- New smaller design: 3.0" x 2.0" x 1.1"
- 100% full-load burn-in
- Cooling by free air convection
- High operating temperature up to 70°C
- Universal AC input: 88-264VAC @ 47-63Hz
- 3.66 watts/in³ power density
- Short circuit, overload, overvoltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103588, pg 117
- Three-year warranty

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
1919043	Meanwell	RS-15-5	+5V@0-3.0A; 85-264@47-63	15.0W	80	1.5	0.5	UL/CUL/TUV/CE/CB	$24.95	$22.95	$20.95
1919051	Meanwell	RS-15-12	+12@0-1.3A; 85-264@47-63	15.6W	120	0.5	0.5	UL/CUL/TUV/CE/CB	24.95	22.95	20.95
1919060	Meanwell	RS-15-15	+15@0-1.0A; 85-264@47-63	15.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	24.95	22.95	20.95
1919078	Meanwell	RS-15-24	+24@0-0.625A; 85-264@47-63	15.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	24.95	22.95	20.95
693193	Mean Well	RS-25-3.3	+3.3V@0-6A	19.8W	80	2	0.5	UL/CUL/TUV/CE/CB	29.69	25.75	24.45
323282	Mean Well	RS-25-5	+5V@0-5A	25.0W	80	1	0.5	UL/CUL/TUV/CE/CB	29.69	25.75	24.46
323300	Mean Well	RS-25-12	+12V@0-2.1A	25.2W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.69	25.75	24.45
323302	Mean Well	RS-25-15	+15V@0-1.7A	25.5W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.69	25.75	24.45
323311	Mean Well	RS-25-24	+24V@0-1.1A	26.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.69	25.75	24.45
123247	Mean Well	S-25-5	+5V@0-5A	25.0W	50	1	0.5	UL/TUV/CE	41.95	33.71	30.35
123255	Mean Well	S-25-12	+12V@0-2.1A	25.2W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
123262	Mean Well ⊕ ✪	S-25-15	+15V@0-1.7A	25.5W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123272	Mean Well	S-25-24	+24V@0-1.1A	26.4W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35

Call for special versions and large quantities

POTRANS **Great Prices on Special Buys** Volgen LOWER PRICES

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
689848	Potrans	1M150C05-1M	+5V@0-3.0A	15.0W	100	0.5	1.0	UL/CUL/TUV/CE	$19.95	$17.95	$14.95
692422	Volgen	SX15U-05S	+5V@3.0A	15.0W	100	—	—	UL/CSA	15.95	13.95	11.95

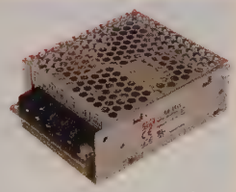
* Primary Output ✪ Blue Part No. = Limited Quantity Available

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

35 to 60W Enclosed Switching AC-to-DC Power Supplies

Additional Enclosed Power Supplies are available online at www.Jameco.com/Power

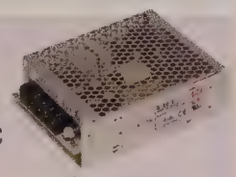
35-Watt Enclosed



RS-35 & RD-35 Series: Single & Dual Output

- New smaller design: 3.9" x 3.2" x 1.4"
- 2 watts/in³ power density
- 100% full-load burn-in
- 105°C output capacitors
- Three-year warranty
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit, overload, overvoltage protection
- Cooling by free air convection
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103588, pg 116
- High operating temperature up to 70°C

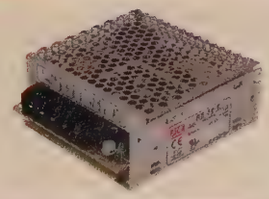
40-Watt Enclosed



S-40 & T-40 Series: Single & Triple Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- 1.6 watts/in³ maximum
- Voltage adjustment: 10%
- Mating connector: P/N 103588, pg 116
- Two-year warranty
- Working temperature: -10°C to +60°C
- See www.Jameco.com for specs.
- Mounting hardware: use P/Ns 222122, 222156 & 222173 (see web)

50-Watt Enclosed



RS-50, RD-50, RT-50, & RQ-50 Series: Single, Dual, Triple & Quad Output

- 100% full-load burn-in
- Three-year warranty
- See www.Jameco.com for specifications

60-Watt Enclosed



For Indoor and Outdoor Applications

- Built-in active PFC
- 100% full burn in test
- Suitable for LED lighting & moving sign application
- Short circuit/overload/overvoltage/overtemperature protection
- Universal AC input/full range
- Cooling by free air convection
- UL1310 class 2 power unit
- Inrush current: 40A/230VAC

PLN-60 Series

- Line and load regulation: ±4%; ±10%
- Working temp. range: -30°C to 50°C
- Size: 7.13"L x 2.42"W x 1.38"H
- Two-year warranty

CLG-60 Series

- Line and load regulation: ±4%; ±10%
- Working temp. range: -30°C to 70°C
- Size: 6.77"L x 2.42"W x 1.54"H
- Three-year warranty

MEAN WELL PERFORMANCE At Value Prices

For Complete Specifications visit www.Jameco.com

Open-Frame Power Supplies on pages 143-145.

For PC Power Supplies, see page 173.

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	10	25
639214	Mean Well ≷	RS-35-3.3	+3.3V@0-7A	23.1W	80	2	0.5	UL/CUL/TUV/CE/CB	$36.15	$31.36	$29.79
323329	Mean Well ≷	RS-35-5	+5V@0-7A	35.0W	80	1	0.5	UL/CUL/TUV/CE/CB	37.25	31.36	29.79
323337	Mean Well ≷	RS-35-12	+12V@0-3A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.99	31.95	22.48
323345	Mean Well ≷	RS-35-15	+15V@0-2.4A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.65	32.00	24.00
323353	Mean Well ≷	RS-35-24	+24V@0-1.5A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.59	31.69	30.09
693222	Mean Well ≷	RS-35-48	+48V@0-0.8A	38.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	37.59	31.69	30.09
323362	Mean Well ≷	RD-35A	+5V@0.3-4A; +12V@0.2-1A	32.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	35.28	33.53
323380	Mean Well ≷	RD-35B	+5V@0.3-4A; +24V@0.2-1.3A	51.2W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	35.28	33.52
123290	Mean Well ≷	S-40-5	+5V@0-8A	40.0W	75	1	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
123298	Mean Well ≷	S-40-12	+12V@0-3.5A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
202140	Mean Well ≷	S-40-15	+15V@0-2.8A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	35.65	32.08	24.05
123319	Mean Well ≷	S-40-24	+24V@0-1.8A	43.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
201989	Mean Well ≷	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	100	0.5	0.5	CSA/CE	43.89	42.55	35.02
201997	Mean Well ≷	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	45.19	42.10	37.90
202009	Mean Well ≷	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	43.19	41.99	38.28
693231	Mean Well ≷	RS-50-3.3	+3.3V@0-10A	33.0W	80	2	0.5	UL/CUL/TUV/CE/CB	40.59	34.65	32.89
323388	Mean Well ≷	RS-50-5	+5V@0-10A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	40.59	34.65	32.89
323396	Mean Well ≷	RS-50-12	+12V@0-4.2A	50.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.59	34.65	32.89
323409	Mean Well ≷	RS-50-15	+15V@0-3.4A	51.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.59	34.65	32.89
323417	Mean Well ≷	RS-50-24	+24V@0-2.2A	52.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.59	34.65	32.89
693249	Mean Well ≷	RS-50-48	+48V@0-1.1A	52.8W	200	0.5	0.5	UL/CUL/TUV/CE/CB	40.59	34.65	32.89
323425	Mean Well ≷	RD-50A	+5V@0.3-6A; +12V@0.3-3A	54.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.55	37.62	35.74
323433	Mean Well ≷	RD-50B	+5V@0.3-6A; +24V@0.2-2A	53.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.15	37.24	35.38
323442	Mean Well ≷	RT-50A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0.5-5A	46.5W	80	1	0.5	UL/CUL/TUV/CE/CB	45.55	38.72	29.04
323460	Mean Well ≷	RT-50B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.55	39.60	37.62
323468	Mean Well ≷	RT-50C	+5V@0-5A; +15V@0.2-2A; -15V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323492	Mean Well ≷	RQ-50D	+5V@0.5-6A; +12V@0.2-1.5A; +24V@0.1-1A; -12V@0-1A	53.4W	80	0.5	0.5	UL/CUL/TUV/CE/CB	47.05	40.18	38.17
1918913	Meanwell ≷	PLN-60-12	+12 @ 0-5.0A	60.0W	2.0	—	—	UL/CUL/TUV/CE	77.95	69.95	62.95
1918964	Meanwell ≷	PLN-60-15	+15 @ 0-4.0A	60.0W	2.4	—	—	UL/CUL/TUV/CE	77.95	69.95	62.95
1918981	Meanwell ≷	PLN-60-24	+24 @ 0-2.5A	60.0W	2.7	—	—	UL/CUL/TUV/CE	77.95	69.95	62.95
1918921	Meanwell ≷	CLG-60-12	+12 @ 0-5.0A	60.0W	2.0	—	—	UL/CUL/TUV/CE	96.95	85.95	76.95
1919001	Meanwell ≷	CLG-60-15	+15 @ 0-4.0A	60.0W	2.4	—	—	UL/CUL/TUV/CE	96.95	85.95	76.95
1919027	Meanwell ≷	CLG-60-24	+24 @ 0-2.5A	60.0W	2.7	—	—	UL/CUL/TUV/CE	96.95	85.95	76.95

POTRANS **Great Prices on Special Buys** Quantity Save

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	10	25
689805	Potrans	1M041C05-1M	+5V@0-8.0A	40.0W	75	—	—	UL/CUL/TUV/CE	$24.95	$22.49	$19.95
689830	Potrans	1M041C12-1M	+12V@0-3.5A	42.0W	100	—	—	UL/CUL/TUV/CE	29.95	27.95	24.95
689792	Potrans	1M041C24-1M	+24V@0-1.8A	43.0W	100	—	—	UL/CUL/TUV/CE	24.95	22.95	19.95
689784	Potrans	1M051C05-0M	+5V@10.0A	50.0W	—	—	—	UL/CUL	24.95	22.95	19.95
689768	Potrans	FS-06005-0M	+5V@0-12.0A	60.0W	120	—	—	UL/CUL/CE	24.95	22.95	19.95
689821	Potrans	1M051C12-1M	+12V@0-4.2A	50.0W	100	—	—	UL/CUL/TUV/CE	24.95	22.95	19.95

* Primary Output

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend: New Sale Lower$ QtySave

60 to 100-Watt Enclosed Switching AC-to-DC Power Supplies

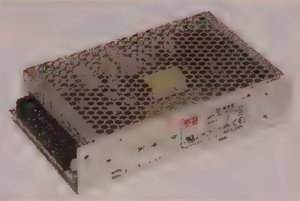
Color Code Legend: New Sale Lower$ QtySave

Additional Enclosed Power Supplies are available online at www.Jameco.com/Power

60-Watt Enclosed

S-60, D-60, T-60 & Q-60 Series: Single, Dual, Triple & Quad Outputs

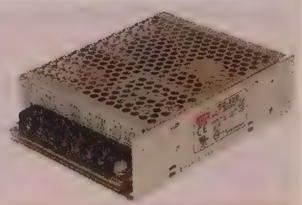
- 100% full-load burn-in
- Two-year warranty
- See **www.Jameco.com** for specifications



65-Watt Enclosed

RD-65, RT-65 & RQ-65 Series: Dual, Triple & Quad Outputs

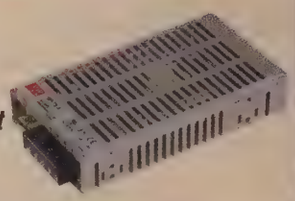
- 100% full-load burn-in
- Three-year warranty
- See **www.Jameco.com** for specifications



75 & 85-Watt Enclosed with Power Factor Correction

SP-75 Series: Single Output
RD-85 & RT-85 Series: Dual & Triple Output
RS-75 Series: Single Output

- 100% full-load burn-in • Three-year warranty
- See **www.Jameco.com** for specifications



100-Watt Enclosed w/ PFC

CLG-100 Series: Single Output

- Universal AC input/full range • Three-year warranty
- Safety standard UL1310 Class 2, IP67
- See **www.Jameco.com** for specifications



100-Watt Enclosed *PLN-100 Series: Indoor and Outdoor Applications*

- Suitable for LED lighting & moving sign application
- UL1310 class 2 power unit
- Cooling by free air convection
- Line and load regulation: ±1%; ±2%
- Two-year warranty
- Built-in active PFC
- Inrush current: 40A/230VAC
- Short circuit/overload/overvoltage/overtemperature protection
- Size: 7.87"L x 2.78"W x 1.38"H
- See **www.Jameco.com** for specifications
- 100% full burn in test
- Universal AC input/full range
- Working temperature range: -30°C to 50°C



MEAN WELL — PERFORMANCE At Value Prices — c UL us — CE

For Complete Specifications visit www.Jameco.com

For PC Power Supplies, see page 173.

Open-Frame Power Supplies on pages 143-145.

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	10	25
123326	Mean Well ⊕ ✪	S-60-5	+5V@0-12A	60.0W	120	1	0.5	UL/CUL/TUV/CE/CB	$58.29	$44.82	$40.28
123335	Mean Well ♻	S-60-12	+12V@0-5A	60.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123343	Mean Well ♻	S-60-15	+15V@0-4A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123352	Mean Well ♻	S-60-24	+24V@0-2.5A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123458	Mean Well ♻	D-60A	+5V@0.3-4A; +12V@0.2-3A	56.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	45.95	44.49	43.25
123466	Mean Well ♻	D-60B	+5V@0.3-3A; +24V@0.2-1.8A	58.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	45.19	43.79	39.99
123482	Mean Well ♻	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0-0.5A	61.0W	100	1	0.5	UL/CUL/TUV/CE/CB	61.49	49.82	44.84
123491	Mean Well ♻	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A	62.5W	100	1	0.5	UL/CUL/TUV/CE/CB	61.49	48.82	44.84
147046	Mean Well ♻	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0W	100	0.5	0.5	UL/CUL/CE/CB	68.59	57.09	51.39
323505	Mean Well ♻	RD-65A	+5V@0.3-8A; +12V@0.2-4A	66.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	47.05	40.18	38.17
323513	Mean Well ♻	RD-65B	+5V@0.3-8A; +24V@0.2-3A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	47.55	40.59	38.56
323540	Mean Well ♻	RT-65B	+5V@0.5-8A; +12V@0.2-3.5A; -12V@0-1A	64.6W	80	1	0.5	UL/CUL/TUV/CE/CB	49.95	47.55	45.55
323548	Mean Well ♻	RT-65C	+5V@0.5-8A; +15V@0.2-3A; -15V@0-1A	65.5W	80	1	0.5	UL/CUL/TUV/CE/CB	49.95	47.55	45.55
323564	Mean Well ♻	RQ-65B	+5V@0.5-8A; +12V@0.2-3A; -5V@0-1A; -12V@0-1A	62.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323572	Mean Well ♻	RQ-65D	+5V@0.5-8A; +12V@0.2-3A; +24V@0.1-1.5A; -12V@0-1A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.95	41.26	39.24
693257	Mean Well ♻	RS-75-3.3	+3.3V@0-15A	49.5W	80	2	0.5	UL/CUL/TUV/CE/CB	45.55	38.59	36.65
323581	Mean Well ♻	RS-75-5	+5V@0-12A	60.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.55	38.72	29.04
323599	Mean Well ♻	RS-75-12	+12V@0-6A	72.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	45.55	38.59	36.65
323602	Mean Well ♻	RS-75-15	+15V@0-5A	75.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	45.55	38.59	36.65
323620	Mean Well ♻	RS-75-24	+24V@0-3.2A	76.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	45.55	38.59	36.65
693265	Mean Well ♻	RS-75-48	+48V@0-1.6A	76.8W	200	0.5	0.5	UL/CUL/TUV/CE/CB	45.55	38.59	36.65
693370	Mean Well ♻	SP-75-3.3	+3.3V@0-15.0A	49.5W	80	1	0.5	UL/CUL/TUV/CE/CB	79.19	75.24	56.43
194830	Mean Well ♻	SP-75-5	+5V@0-15A	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	71.95	64.76	58.28
194838	Mean Well ♻	SP-75-12	+12V@0-6.3A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.59	75.25	72.95
693396	Mean Well ♻	SP-75-13.5	+13.5V@0-5.6A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
194845	Mean Well ⊕ ✪	SP-75-15	+15V@0-5A	75.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	77.59	73.69	71.49
194854	Mean Well ♻	SP-75-24	+24V@0-3.2A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	79.59	75.25	72.95
693409	Mean Well ♻	SP-75-27	+27V@0-2.8A	75.6W	100	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
323628	Mean Well ♻	RD-85A	+5V@2-10A; +12V@0.3-5A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.65	56.65	42.90
323661	Mean Well ♻	RT-85C	+5V@2-10A; +15V@0.3-4A; -15V@0-1A	87.5W	80	1	0.5	UL/CUL/TUV/CE/CB	72.55	61.67	46.25
1585805	Mean Well ♻	CLG-100-12	+12V@0-5A	60.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585856	Mean Well ♻	CLG-100-15	+15V@0-5A	75.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585864	Mean Well ♻	CLG-100-20	+20V@0-4.8A	96.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585872	Mean Well ♻	CLG-100-24	+24@0-4A	96.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585733	Mean Well ♻	CLG-100-27	+27V@0-3.55A	95.85W	150	2	1	UL/CUL/TUV/CE	127.49	111.17	91.17
1585750	Mean Well ♻	CLG-100-36	+36V@0-2.65A	95.4W	150	2	1	UL/CUL/TUV/CE	127.49	111.17	91.17
1585768	Mean Well ♻	CLG-100-48	+48V@0-2A	96.0W	200	2	1	UL/TUV/CE	127.49	111.17	91.17
1918833	Mean Well ♻	PLN-100-12	+12 @ 0-5.0A	60.0W	150	—	—	UL/CUL/TUV/CE	107.75	93.95	81.95
1918841	Mean Well ♻	PLN-100-15	+15 @ 0-5.0A	75.0W	150	—	—	UL/CUL/TUV/CE	107.75	93.95	81.95
1918868	Mean Well ♻	PLN-100-24	+24 @ 0-4.0A	96.0W	150	—	—	UL/CUL/TUV/CE	107.75	93.95	81.95

* Primary Output ✪ Blue Part No. = Limited Quantity Available

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

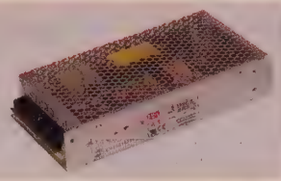
100 to 150W Enclosed Switching AC-to-DC Power Supplies

Additional Enclosed Power Supplies are available online at www.Jameco.com/Power

100-Watt Enclosed

S-100F Series: Single Output

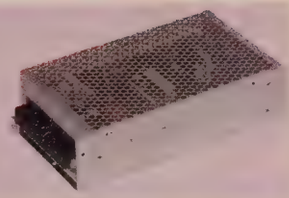
- 100% full-load burn-in
- Two-year warranty
- See **www.Jameco.com** for specifications



120-Watt Enclosed

D-120 & Q-120 Series: Dual & Quad Outputs

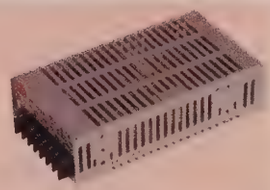
- 100% full-load burn-in
- Two-year warranty
- See **www.Jameco.com** for specifications



100-Watt Enclosed with Power Factor Correction

SP-100 & TP-100 Series: Single & Triple Outputs

- 100% full-load burn-in
- Three-year warranty
- See **www.Jameco.com** for specifications



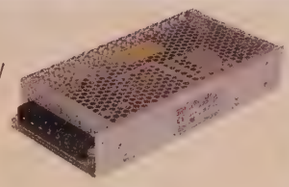
125 & 150-Watt Enclosed

- 100% full-load burn-in • Three-year warranty
- See **www.Jameco.com** for specifications

RD-125, RT-125 Series: Dual & Triple Outputs

RS-150 Series: Single Output

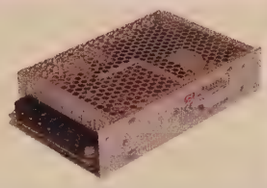
- New smaller design: 7.8" x 3.9" x 1.5"



100-Watt Enclosed

RS-100 Series: Single Output

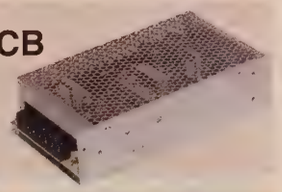
- 100% full-load burn-in
- Three-year warranty
- See **www.Jameco.com** for specifications



150-Watt Enclosed

S-150 Series: Single Output

- 100% full-load burn-in
- Two-year warranty
- See **www.Jameco.com** for specifications



MEAN WELL PERFORMANCE At Value Prices

For Complete Specifications visit www.Jameco.com

For PC Power Supplies, see page 173.

Open-Frame Power Supplies on pages 143-145.

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	10	25
201971	Mean Well ♻	S-100F-24	+24V@0-4.5A	108.0W	150	0.5	0.5	UL/TUV/CE/CB	$70.29	$52.39	$47.14
216793	Mean Well ♻	S-100F-48	+48V@0-2.2A	105.6W	150	0.5	0.5	UL/TUV/CE/CB	70.29	59.75	44.81
693441	Mean Well ♻	SP-100-3.3	+3.3V@0-20.0A	66.0W	100	1	0.5	UL/CUL/TUV/CE/CB	91.09	86.13	64.60
194791	Mean Well ♻	SP-100-5	+5V@0-20A	100.0W	100	1	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
194803	Mean Well ♻	SP-100-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	91.09	86.13	64.59
194812	Mean Well ♻	SP-100-24	+24V@0-4.2A	100.8W	150	0.5	0.5	UL/CUL/TUV/CE/CB	92.39	78.53	58.90
213778	Mean Well ⊕	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	100	3	1	UL/CUL/TUV/CE/CB	111.15	94.08	70.56
323716	Mean Well ♻	RS-100-12	+12V@0-8.5A	102.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	63.35	54.45	51.75
323724	Mean Well ♻	RS-100-15	+15V@0-7A	105.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	63.35	54.45	51.75
323732	Mean Well ♻	RS-100-24	+24V@0-4.5A	108.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	67.35	59.35	54.77
132410	Mean Well ♻	D-120A	+5V@2-12A; +12V@0.5-5A	120.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	79.75	66.45	58.93
132397	Mean Well ♻	D-120B	+5V@2-6A; +24V@0.4-4A	126.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	79.75	66.45	58.93
132389	Mean Well ♻	Q-120B	+5V@2-11A; -5V@0.2-1A; +12V@0.5-4A; -12V@0.2-1A	120.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	85.85	68.41	51.30
132371	Mean Well ♻	Q-120D	+5V@2-8A; +24V@0.2-2A; +12V@0.2-2A; -12V@0.2-1A	124.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	81.55	64.99	57.99
323759	Mean Well ♻	RD-125B	+5V@2-10A; +24V@0.4-5A	133.4W	80	3	1	UL/CUL/TUV/CE/CB	67.95	64.65	52.39
323775	Mean Well ♻	RT-125B	+5V@2-15A; +12v@0.5-6A; -12V@0.1-1A	132.0W	80	1	0.5	UL/CUL/TUV/CE/CB	73.95	70.35	60.85
323783	Mean Well ♻	RT-125C	+5V@2-15A; +15V@0.5-6A; -15V@0.1-1A	132.5W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323792	Mean Well ♻	RT-125D	+5V@2-15A; +12V@0.1-2A; +24V@0.4-4A	136.0W	80	1	0.5	UL/CUL/TUV/CE/CB	78.39	70.52	63.46
693329	Mean Well ♻	RS-150-3.3	+3.3V@0-30.0A	99.0W	80	2	0.5	UL/CUL/TUV/CE/CB	67.35	58.45	55.55
323839	Mean Well ♻	RS-150-12	+12V@0-12.5A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	67.75	58.45	56.99
323847	Mean Well ♻	RS-150-15	+15V@0-10A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	67.35	58.45	55.55
323855	Mean Well ♻	RS-150-24	+24V@0-6.5A	156.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	67.35	58.45	55.55
323863	Mean Well ♻	RS-150-48	+48V@0-3.3A	158.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	67.35	58.45	55.55
123394	Mean Well ♻	S-150-5	+5V@0-30A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123415	Mean Well ♻	S-150-7.5	+7.5V@0-20A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123423	Mean Well ♻	S-150-12	+12V@0-12.5A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
202025	Mean Well ♻	S-150-13.5	+13.5V@0-11.2A	151.2W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.25	54.61	40.96
123432	Mean Well ♻	S-150-15	+15V@0-10A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123450	Mean Well ♻	S-150-24	+24V@0-6.5A	156.0W	240	0.2	0.2	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
202033	Mean Well ♻	S-150-27	+27V@0-5.6A	151.2W	240	0.2	0.2	UL/CUL/TUV/CE/CB	69.79	59.33	44.49
167346	Mean Well ♻	S-150-48	+48V@0-3.2A	153.6W	240	0.2	0.2	UL/CUL/TUV/CE/CB	68.59	64.04	62.05

Call for special versions and large quantities

* Primary Output

Volgen Great Prices on Special Buys

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	10	25
323871	Volgen ✪	SP100U-24S	+24V@4.4A	105.6W	150	0.4	0.2	—	$29.75	$25.29	$21.50

* Primary Output ✪ Blue Part No. = Limited Quantity Available

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: New Sale Lower$ QtySave

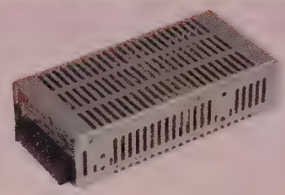
150 to 320-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend: New Sale Lower$ QtySave

Additional Enclosed Power Supplies are available online at www.Jameco.com/Power

150-Watt Enclosed w/ PFC

SP-150 & TP-150 Series: Single & Triple Outputs



- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- Working temperature: -10°C to +60°C
- Mating connector: P/N 103588, pg 116
- Three-year warranty
- See **www.Jameco.com** for specifications

200-Watt Enclosed with Power Factor Correction

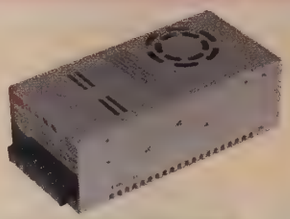
SP-200 Series: Single Output



- 100% full-load burn-in
- Built-in fan cooling
- Input: 85-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: P/N 103588, pg 116
- Working temperature: -10°C to +60°C
- Three-year warranty
- See **www.Jameco.com** for specifications

240-Watt Enclosed

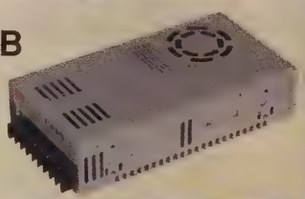
S-240 Series: Single Output



- 100% full-load burn-in
- Voltage adjustment: 10%
- Auto cooling fan
- No minimum load required
- Mating connector: P/N 103588, pg 116
- Two-year warranty
- 3.4 watts/in³ maximum
- Input: 88-132/176-264VAC @ 47-63Hz
- See **www.Jameco.com** for specifications

300 & 320-Watt Enclosed with Power Factor Correction

SP-300 & SP-320 Series: Single Output



- 100% full-load burn-in
- Working temperature: SP-300: -10°C to +60°C; SP-320: -20°C to 65°C
- Auto cooling fan
- See **www.Jameco.com** for specifications
- Universal AC input
- Voltage adjustment: 10%
- Input: 88-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- Three-year warranty

MEAN WELL — PERFORMANCE At Value Prices

For Complete Specifications visit www.Jameco.com

For PC Power Supplies, see page 173.

Open-Frame Power Supplies on pages 143-145.

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
201903	Mean Well ♻	SP-150-3.3	+3.3V@0-30A	99.0W	100	1	0.5	UL/CUL/TUV/CE/CB	$96.19	$77.85	$58.39
201912	Mean Well	SP-150-5	+5V@0-30A	150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	74.95	63.71	54.03
173421	Mean Well ♻	SP-150-12	+12V@0-12.5A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
394193	Mean Well ⊕	SP-150-13.5	+13.5V@0-11.2A	151.2W	100	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	92.19
173412	Mean Well ♻	SP-150-15	+15V@0-10A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	91.21	85.70
173404	Mean Well ♻	SP-150-24	+24V@0-6.3A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	101.99	97.02	94.12
201930	Mean Well ♻	SP-150-48	+48V@0-3.2A	153.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
213832	Mean Well ♻	TP-150C	+5V@2-15A; +15V@0.4-4.5A; -15V@0-0.6A	151.5W	100	3	1	UL/CUL/TUV/CE/CB	117.99	106.12	86.83
693521	Mean Well ♻	SP-200-3.3	+3.3V@0-40.0A	132.0W	100	1	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202042	Mean Well ♻	SP-200-5	+5V@0-40A	200.0W	100	1	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	102.55
693530	Mean Well ♻	SP-200-7.5	+7.5V@0-26.7A	202.2W	100	1	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
194774	Mean Well ♻	SP-200-12	+12V@0-16.7A	200.4W	100	0.5	0.5	UL/CUL/TUV/CE/CB	112.49	105.73	102.55
212410	Mean Well ♻	SP-200-13.5	+13.5V@0-14.9A	201.1W	100	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202060	Mean Well ♻	SP-200-15	+15V@0-13.4A	201.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	102.51
194782	Mean Well ♻	SP-200-24	+24V@0-8.4A	201.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
693548	Mean Well ♻	SP-200-27	+27V@0-7.5A	202.5W	150	0.5	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	80.93
202068	Mean Well ♻	SP-200-48	+48V@0-4.2A	201.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
693556	Mean Well ♻	S-240-7.5	+7.5V@0-30.0A	225.0W	200	1	0.5	UL/CUL/TUV/CE/CB	107.89	101.97	76.48
137649	Mean Well ♻	S-240-12	+12V@0-18A	216.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	106.85	100.94	98.92
202075	Mean Well ⊕	S-240-15	+15V@0-15A	225.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	107.35	91.08	80.49
137657	Mean Well ♻	S-240-24	+24V@0-10A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
392834	Mean Well ♻	S-240-30	+30V@0-8A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
167338	Mean Well ♻	S-240-48	+48V@0-5A	240.0W	240	1	1	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
161980	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	300.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
244735	Mean Well ♻	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	275.0W	150	1	0.5	UL/CUL/TUV/CE/CB	152.89	129.96	97.47
394215	Mean Well ♻	SP-320-7.5	+7.5V@0-40A	300.0W	150	1	0.5	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244743	Mean Well ♻	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693599	Mean Well ♻	SP-320-13.5	+13.5V@0-22.0A	297.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693610	Mean Well ♻	SP-320-15	+15V@0-20.0A	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	125.69
244752	Mean Well ♻	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	312.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693628	Mean Well ♻	SP-320-27	+27V@0-11.7A	315.9W	200	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	99.23
244770	Mean Well ♻	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	321.6W	240	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07

Call for special versions and large quantities

* Primary Output

Email us 24/7 at **NewProducts@Jameco.com** with suggestions for products you'd like to see in future catalogs.

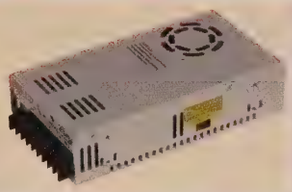
♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

320 to 600W Enclosed Switching AC-to-DC Power Supplies

Additional Enclosed Power Supplies are available online at www.Jameco.com/Power

320-Watt Enclosed

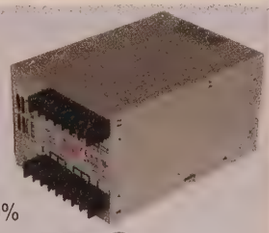
S-320 Series: Single Output



- 100% full-load burn-in
- Input: 88-132/176-264VAC @ 47-63Hz
- 4.1 watts/in³ maximum
- Auto cooling fan
- Two-year warranty

500-Watt Enclosed with Power Factor Correction

SP-500 Series: Single Output

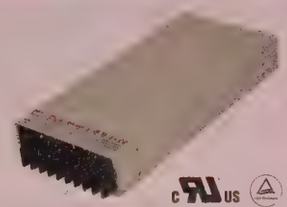


- 100% full-load burn-in
- Input: 88-264VAC, 120-370VDC
- 3.6 watts/in³ maximum
- Remote control
- Auto cooling fan
- Voltage adjustment: 10%
- Input: 100-240VAC @ 50-60Hz
- Mating connector: P/N 103588, pg 116
- Working temperature: -10°C to +60°C
- Three-year warranty

For Complete Specifications visit www.Jameco.com

480-Watt Enclosed with Power Factor Correction

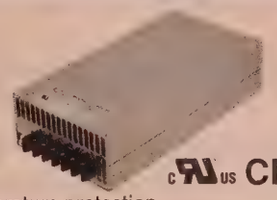
SP-480 Series: Single Output



- Input: 85-264VAC, 120-370VDC
- Working temperature: -20°C to +60°C
- Short circuit, overload, overvoltage, overtemperature protection
- Built-in remote ON-OFF control, and remote sense function
- Three-year warranty
- Size: 10.9"L x 5.0"W x 1.7"H

600-Watt Enclosed

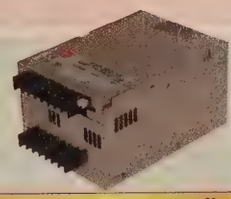
SE-600 Series: Single Output



- AC input range switch selectable
- AC input active surge current limiting
- Inrush current: 30A @ 115VAC
- Leakage current: <2mA @ 240VAC
- Working temperature: -20°C to +60°C
- Short circuit, overload, overvoltage, overtemperature protection
- Size: 9.7"L x 5.0"W x 2.5"H
- Two-year warranty

600-Watt Enclosed with Power Factor Correction

PSP-600 Series: Single Output



- Built-in active PFC function
- Forced air cooling by built-in DC fan
- Built-in remote ON-OFF control, and remote sense function
- Input: 88-264VAC @ 47-64Hz/124-370VDC
- Working tempeature: -20°C to +50°C
- Current sharing up to 2400W (3 +1)
- Short circuit, overload, overvoltage, overtemperature protection
- Mating connector: P/N 103588 or 302877, pg 115
- Three-year warranty

MEAN WELL

Open-Frame Power Supplies on pages 143-145.

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
216776	Mean Well	S-320-5	+5V@0-50A	250.0W	150	1	0.5	UL/CUL	$120.59	$116.97	$113.47
207212	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	150	0.5	0.5	UL/CUL	129.69	115.74	109.95
207204	Mean Well	S-320-12	+12V@0-25A	300.0W	150	0.5	0.5	UL/CUL	120.59	116.97	113.47
693572	Mean Well ♻	S-320-13.5	+13.5V@0-22.0A	297.0W	150	0.5	0.5	UL/CUL	120.59	116.97	113.47
374993	Mean Well	S-320-15	+15V@0-20A	300.0W	150	0.5	0.5	UL/CUL	120.59	116.00	113.00
196657	Mean Well ♻	S-320-24	+24V@0-12.5A	300.0W	150	0.5	0.5	UL/CUL	129.69	122.76	110.48
693581	Mean Well ♻	S-320-27	+27V@0-11.0A	297.0W	200	0.5	0.5	UL/CUL	120.59	116.97	87.73
207191	Mean Well	S-320-48	+48V@0-6.5A	312.0W	240	0.5	0.5	UL/CUL	120.59	116.97	113.47
693644	Mean Well ♻	SP-480-5	+5V@0-85.0A	425.0W	80	1	0.5	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
301373	Mean Well ♻	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	480.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
301322	Mean Well ♻	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	480.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	249.95	216.79	209.95
301402	Mean Well ♻	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	480.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	248.49	211.22	158.42
190693	Mean Well ♻	SP-500-12	+12V@0-40A at 230VAC; 0-34A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	269.95	241.99	217.84
147054	Mean Well ♻	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	269.95	255.95	247.95
190706	Mean Well ♻	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	486.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	269.95	255.95	247.95
161796	Mean Well ♻	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	480.0W	300	0.5	0.5	UL/CUL/TUV/CE/CB	269.95	255.95	247.95
374002	Mean Well ⊕	SE-600-05	+5V@0-100A	500.0W	150	2	0.5	UL/CUL	173.95	156.00	140.00
291522	Mean Well ⊕	SE-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295902	Mean Well	SE-600-24	+24V@0-25A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295911	Mean Well ⊕	SE-600-27	+27V@0-22.2A	599.4W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295929	Mean Well	SE-600-48	+48V@0-12.5A	600.0W	200	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
374214	Mean Well ♻	PSP-600-12	+12V@0-50A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	239.99	229.43	217.97
374222	Mean Well ♻	PSP-600-15	+15V@0-40A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374231	Mean Well ♻	PSP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374257	Mean Well ♻	PSP-600-27	+27V@0-22.2A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.99	238.99	179.24
374249	Mean Well ♻	PSP-600-48	+48V@0-12.5A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	201.35	192.46	182.86

* Primary Output

POTRANS **Great Prices on Special Buys**

LOWER PRICES — Quantity Save

Jameco Part No.	Manufacturer	Product No.	Output Voltage@Current (min-max)	Output Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10	Pricing 25
1585549	Potrans	FS-15024-IM	24@0-6.5A	156.0W	240	—	—	UL/CUL/CE	$39.95	$37.95	$34.95
1585557	Potrans	IM201C12-IM-02	12V@0-16.6A	200.0W	120	—	—	UL/CUL/TUV/CE	49.95	44.95	39.95
689750	Potrans	FS-20024-1M	24V@0-8.3A	200.0W	150	—	—	UL/CSA/CE/TUV	49.95	44.95	39.95
689776	Potrans	1M321C48-0M	48@0-6.5A	312.0W	240	—	—	UL/CUL	69.95	62.95	57.95
1585565	Potrans	FS-32024-IM	24V@0-12.5A	320.0W	150	—	—	UL/CUL/CE	69.95	62.95	57.95

* Primary Output

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend: New Sale Lower$ QtySave

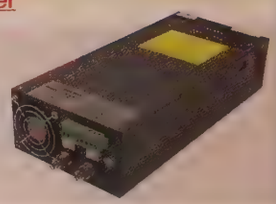
600 to 1500-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend: New Sale Lower$ QtySave

Additional Enclosed Power Supplies are available online at www.Jameco.com/Power

600-Watt Enclosed with Current Sharing

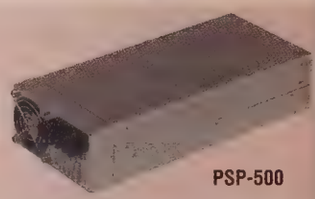
c UL us CB



SCN-600 Series: Single Output

- 100% full-load burn-in
- Auto cooling fan
- Voltage adjustment: 5%
- 3.7 watts/in³ maximum
- Universal AC input: 90-130/180-260VAC @ 47-63Hz
- Mating connector: P/N 103588, pg 116
- Two-year warranty
- Working temperature: -10°C to +65°C; (+50°C to -65°C @ 50% load)
- Mounting hardware: use P/Ns 222156 & 222173

500, 1000 & 1500-Watt Enclosed with Power Factor Correction & Current Sharing



PSP-500

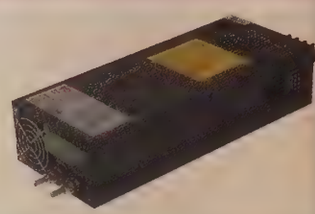
PSP-500, PSP-1000 & PSP-1500 Series: Single Output

- 100% full-load burn-in
- Voltage adj.: 10%
- No minimum load required
- Auto cooling fan
- Remote sense and control
- Mating connector: P/N 103588, pg 116
- Three-year warranty
- Working temperature: -10°C to +60°C
- 3.6 watts/in³ maximum

PSP-500 & PSP-1000: • Parallel operation (current sharing) • Universal AC input: 90-264VAC @ 47-63Hz, 127-370VDC

PSP-1500: • Universal AC input: 176-264VAC @ 47-63Hz, 248-370VDC

800-Watt Enclosed with Power Factor Correction



SCP-800 Series: Single Output

- Input: 180-260VAC@47-63Hz/260-370VDC
- PFC: >0.98@ 230VAC
- Power good signal
- Short circuit,overload,overvoltage,overtemperature protection
- With parallel function (N +1)
- Forced air cooling by built-in DC fan
- Built-in remote sense function, and remote ON-OFF function
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Mating connector: P/N 103588 or 302877, pg 115
- Working temperature: -20°C to +65°C
- Three-year warranty

1000 & 1500-Watt Enclosed with Power Factor Correction



RSP-1500

- Universal AC input/full range
- Short circuit, overload, overvoltage, overtemperature protection
- Forced air cooling by built-in fan
- Built-in remote ON-OFF control
- Working temperature: -20°C to +70°C
- Three-year warranty

RSP-1000 Series: Single Output

- Built-in 5V/0.5A auxiliary power
- DC OK signal
- 1U low profile (41 mm)
- Power density: 10.7W/in³
- Size: 11.6"L x 5"W x 1.6"H

RSP-1500 Series: Single Output, Current Sharing

- ZVS new technology
- Current sharing up to 6000W (3 + 1)
- Built-in 12V/1A auxiliary power
- 8.3W / inch³
- Size: 10.9"L x 5.0"W x 3.3"H

MEAN WELL — PERFORMANCE At Value Prices

For Complete Specifications visit www.Jameco.com

For PC Power Supplies, see page 173.

c UL us CE CB

Jameco Part No.	Manufacturer	Product No.	Output: Voltage@Current (min-max)	Output: Power	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing: 1	Pricing: 10	Pricing: 25
220249	Mean Well ⊕	SCN-600-05	+5V@0-100A	500.0W	100	2	0.5	UL/CUL/CB	$292.99	$276.99	$269.99
220257	Mean Well ⊕	SCN-600-12	+12V@0-50A	600.0W	120	1	0.5	UL/CUL/CB	293.05	249.09	186.82
220265	Mean Well	SCN-600-24	+24V@0-25A	600.0W	240	1	0.5	UL/CUL/CB	292.99	276.99	269.99
374062	Mean Well ♻	SCN-600-48	+48V@0-12A	600.0W	480	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99
190714	Mean Well ♻	PSP-500-12	+12V@0-41.5A at 230VAC; 0-33.2A at 115VAC	498.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	283.49	240.93	180.69
190721	Mean Well ⊕ ✪	PSP-500-24	+24V@0-20.8A at 230VAC; 0-16.6A at 115VAC	499.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	242.96	218.66
190731	Mean Well ♻	PSP-500-27	+27V@0-18.5A at 230VAC; 0-14.8A at 115VAC	499.5W	150	0.5	0.2	UL/CUL/TUV/CE/CB	283.49	240.93	180.69
374337	Mean Well ♻	SCP-800-48	+48V@0-16A	768.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	455.75	419.84	393.60
217366	Mean Well ♻	PSP-1000-12	+12V@0-75A at 230VAC; 0-63.8A at 115VAC	900.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
217358	Mean Well ♻	PSP-1000-24	+24V@0-37.6A at 230VAC; 0-32A at 115VAC	902.4W	150	0.5	0.2	UL/CUL/TUV/CE/CB	591.95	499.68	454.93
231652	Mean Well ♻	PSP-1000-27	+27V@0-33.6A at 230VAC; 0-28.6A at 115VAC	907.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	591.95	499.68	454.93
217350	Mean Well ♻	PSP-1000-48	+48V@0-19A at 230VAC; 0-16.2A at 115VAC	912.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	591.95	499.68	454.93
1585670	Mean Well ♻	RSP-1000-12	+12V@0-60A	720W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585696	Mean Well ♻	RSP-1000-15	+15V@0-50A	750W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585717	Mean Well ♻	RSP-1000-24	+24V@0-40A	960W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585709	Mean Well ♻	RSP-1000-27	+27V@0-37A	999W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585725	Mean Well ♻	RSP-1000-48	+48V@0-21A	1008W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
231685	Mean Well ⊕	PSP-1500-13.5	+13.5V@0-100.5A	1356.7W	150	0.5	0.3	UL/CUL/TUV/CE/CB	594.19	540.25	491.13
373923	Mean Well ⊕	PSP-1500-24	+24V@0-56.4A	1353.6W	150	0.5	0.2	UL/CUL/TUV/CE/CB	771.25	655.56	491.67
231714	Mean Well ⊕	PSP-1500-27	+27V@0-50.4A	1360.8W	150	0.5	0.2	UL/CUL/TUV/CE/CB	817.75	776.16	582.12
694938	Mean Well ♻	RSP-1500-24	+24V@0-63A	1512W	150	0.5	0.5	UL/CUL/TUV/CE/CB	775.59	752.73	680.94
694946	Mean Well ♻	RSP-1500-27	+27V@0-56A	1512W	150	0.5	0.5	UL/CUL/TUV/CE/CB	775.59	752.73	680.94
694954	Mean Well ♻	RSP-1500-48	+48V@0-32A	1536W	200	0.5	0.5	UL/CUL/TUV/CE/CB	772.19	752.73	680.94

Call for special versions and large quantities

* Primary Output ✪ Blue Part No. = Limited Quantity Available

Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

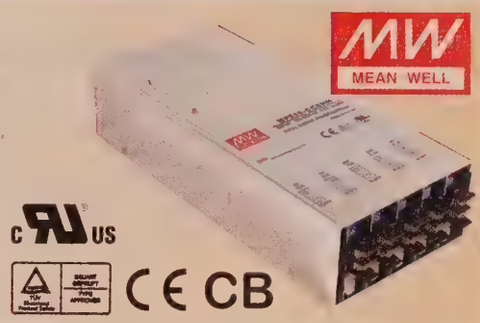
Additional Power Supplies are available online at www.Jameco.com/Power

Specific Configurations for All of Your Power Needs!

Looking for a supply with unique voltage or current requirements? How about more than four outputs? Now Jameco offers Mean Well's Modular power supplies, custom-configured at the factory to your specific needs, with up to 14 isolated outputs.

There are thousands of combinations available for the modular series. This solution provides engineers with one of the fastest ways to procure custom configured power supplies with safety and EMC certificates.

These modular power supplies are custom orders. For all inquiries including specific lead times, please contact Jameco's Power Supply Department at 1-800-794-9100, ext. 563.

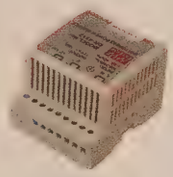


DIN-Rail Switching Power Supplies

Additional DIN-Rail Power Supplies are available online at www.Jameco.com/Power

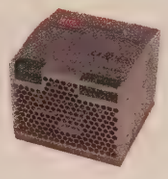
MEAN WELL UL-508

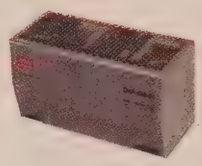

373182 (Fig. 1)

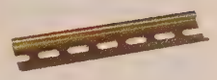

192699 (Fig. 2)


212291 (Fig. 3)


212274 (Fig. 4)


221892 (Fig. 5)


252663 (Fig. 6)


248736 DIN Mounting Rail

- Low cost, high reliability
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- 100% full-load burn-in test
- Short circuit, overload, overvoltage protection
- For DIN-Rail terminal blocks see pg 114

Part No.	Product No.	Fig.	Pwr (W)	Output Volts@Curr.	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
373174	DR-30-5 ♻	1	15	5VDC @ 3A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	$43.19	$38.86	$34.98
373182	DR-30-12 ♻	1	24	12VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	43.19	38.86	34.98
373191	DR-30-15 ♻	1	30	15VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373212	DR-60-5 ♻	1	32.5	5VDC @ 6.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	45.51
373203	DR-30-24 ♻	1	36	24VDC @ 1.5A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	43.29	38.96	35.06
212303	DR-4505 ♻	2	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	48.35	43.53	39.16
192699	DR-4512 ♻	2	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	48.35	43.53	39.16
221875	DR-4515 ♻	2	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	57.39	47.52	35.64
192681	DR-4524 ♻	2	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	48.35	43.53	39.16
373230	DR-60-12 ♻	1	54	12VDC @ 4.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	44.51
373238	DR-60-15 ♻	1	60	15VDC @ 4A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	44.51
373246	DR-60-24 ♻	1	60	24VDC @ 2.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	45.51
212291	DR-7512 ♻	3	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	86.15	81.18	73.06
212282	DR-7524 ♻	3	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	81.35	73.21	65.89
212274	DR-12012 ♻	4	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	97.99	92.07	87.47
212266	DR-12024 ♻	4	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
221904	DR-12048 ♻	4	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
221892	DRP-24024 ♻ †	5	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
221883	DRP-24048 ♻ †	5	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
373123	DRT-240-24 ♻	5	240	24VDC @ 10A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	167.29	162.26	157.39
252663	DRP-48024 ♻ †	6	480	24VDC @ 20A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	229.89	207.99	187.19
295938	DRP-480S-24 ♻ †	6	480	24VDC @ 20A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	236.65	214.99	191.67
301306	DRP-480S-48 ♻ †	6	480	48VDC @ 10A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	236.65	214.99	191.67

Part No.	Cross Ref. No.	Description	Material	Type	Length		1	10	100
248736	2094.0 ♻	Prepunched DIN mounting rail	Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")		$7.15	$5.72	$4.31

*Switch selectable † With Power Factor Correction

Computer Power Supplies on page 173



Committed to You

We're committed to providing you with the best service in the industry.



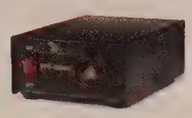
♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend
New Sale Lower$ QtySave

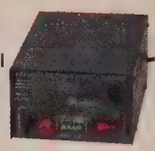
13.8VDC Precision Regulated Power Supplies

- Heavy duty 5'8" 3-prong power cord
- Illuminated rocker switch
- Short circuit protected
- Fuse protected
- Output mating terminals: see pg 117 for cigarette plugs & pg 186 for banana terminal plugs

1918745 Cigarette plug



136581 Banana terminal



138668 Banana terminal (rear)



Part No.	Model No.	Power (W)	Output Volts@Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
1918745	SPS-1204UL	46.2	13.2VDC @ 3.5A	120VAC @ 60Hz	Cigarette plug / terminals	5.2 x 4.0 x 2.0	2.0	$39.95	$34.95	$32.95
136581	RPS1207#	96.6	13.8VDC @ 7A	115VAC @ 60Hz	Banana terminals	8.7 x 5.7 x 3.6	8.5	69.95	59.95	54.95
138668	38-381 ♻	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138676	52-192012 ♻	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

P/N 136581 includes overheating protection

Rackmount Power Supplies

SAMLEX AMERICA

N+1 DC Power System with Battery Back-up Charging

Quantity Save

- N+1 redundancy
- Volt/ampere meter
- Input voltage range: 105 to 125VAC, 60Hz
- Remote monitoring and indication
- Forced air cooling by 2 fans
- Short circuit, current limit, fan failure, input surge suppression protection
- Chassis & cover: steel (black epoxy powder coat) • Size: 19"W x 15.9"D x 3.6"H



Part No.	Product No.	Output (VDC @ A)	Wt. (lbs.)	1	10	25
673310	SEC-100BRM ✣	13.8 @ 100	25.0	$659.95	$655.00	$491.25

600W Single Output

Quantity Save



- AC Input active surge current limiting
- Forced air cooling by built-in DC fan
- Built-in remote sense function • Ripple & noise: 150mVp-p max.
- Input voltage: 90-132VAC/180-264VAC switch selectable
- Short circuit, overload, overvoltage, overtemperature protection
- Size: 19.5"W x 5.0"D x 3.5"H

Part No.	Product No.	Output (VDC @ A)	1	10	25
673395	SE-600-24RM ✣	24 @ 25	$274.25	$268.75	$201.56
673408	SE-600-48RM ✣	48 @ 12.5	255.55	242.72	230.58

✣ This product is a special order, non-cancelable, non-returnable and may take up to 2 weeks to ship.

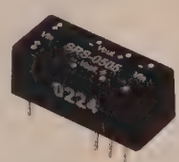
0.5 & 1-Watt Unregulated Encapsulated Converters

MEAN WELL

SRS-05 & SPR01 Series: Single Output

- 1000VDC isolation
- Input filter: capacitor type
- Working temperature: -15°C to +60°C
- No external components needed
- 100% burn-in test
- Protection: short circuit
- One-year warranty

SRS-05



Jameco Part No.	Product No.	Input Range	Output Voltage@Current	Output Power	Size Inches (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing 1	10	25	100
213226	SRS-0505♻	4.5-5.5V	+5V @ 100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	$5.05	$4.79	$4.55	$4.33
216831	SPR01L-12♻	4.5-5.5V	+12V @ 84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100	9.49	8.54	7.68	6.91

1 Amp Power Supply Kit

velleman

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators.



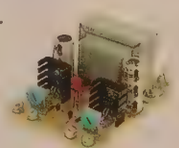
- Output current max.: 1.5A • Max. input voltage: 40V
- Max. dissipation: 15W (cooled)
- Difficulty level: intermediate • 12-piece kit

Requires: 25.2VCT @ 2A quick connect power transformer (recommend P/N 102104 or equivalent, pg 164)

Part No.	Product No.	Dimensions	1	10
117621	K1823	2.1"L x 2.1"W	$12.95	$11.65

Dual Adj. Regulated Power Supply Kit

Build a dual adjustable power supply for your circuits.



- Adjustable positive/negative supplies ±5 to ±15VDC, 175mA–750mA per supply
- LED on indicator • 120VAC input
- PC board construction • 48-piece kit
- Difficulty level: intermediate

Part No.	Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626	JE215	5.1"L x 3.5"W x 2.0"H	2.1	$27.54	$24.59

Localize Your Power



When you're thinking about powering your creation, consider the use of a localized DC-to-DC converter. These devices are great for odd voltages and relatively low current requirements. Plus, you'll have less noise without the leads connecting to the power supply.

Practical Practices
Money Saving Tips for the Engineer

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242



♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Converters are available online at www.Jameco.com/Power

3 to 15-Watt Encapsulated Converters



SLW05

- Input filter: Pi network
- Shielded metal case
- 2:1 wide input range
- Protection: short circuit & overload
- 100% burn-in test
- One-year warranty

3, 5 & 10-Watt SCW03, DCW03, SLW05, SKE10 & DKE10 Series: Single & Dual Outputs

- Regulated
- Isolation voltage: 1000VDC
- Working temperature: -15°C to +60°C

MEAN WELL — PERFORMANCE At Value Prices

15-Watt SKE15 & DKE15 Series: Single & Dual Outputs

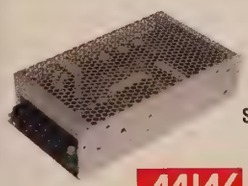
- Regulated
- Isolation voltage: 1000VDC
- Free-air convection cooling
- Working temp.: -15°C to +60°C

For More Power Supplies and Complete Specifications visit www.Jameco.com.

Quantity Save

Jameco Part No.	Product No.	Manufacturer	Input Range	Output Voltage@Current	Output Power	Size Inches (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing 1	10	25	100
213269	SCW03A-05R	Mean Well	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	$16.75	$15.07	$13.60	$12.19
155919	DCW03A-05R	Mean Well	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
161702	DCW03A-12R	Mean Well	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	22.19	20.02	18.01	16.21
220354	SLW05A-033R	Mean Well	9-18V	+3.3V@1500mA	5W	2.0x1.0x0.44	5	0.2	0.5	100	25.15	22.62	20.37	18.32
216929	SLW05A-05R	Mean Well	9-18V	+5V@1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	26.45	23.37	21.47	19.35
216882	SLW05A-15R	Mean Well	9-18V	+15V@333mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.46	17.97	13.48
216937	SLW05B-05R	Mean Well	18-36V	+5V@100mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216911	SLW05B-12R	Mean Well	18-36V	+12V@417mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.46	17.97	13.48
213234	SLW05C-05R	Mean Well	36-72V	+5V@1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	19.49	17.54	14.03	12.66
216962	SKE10A-05R	Mean Well	9-18V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	34.29	30.85	27.22	26.27
216980	SKE10A-15R	Mean Well	9-18V	+15V@666mA	10W	2.0x1.0x0.44	5	0.3	1.0	60	38.19	36.69	34.39	25.79
216953	SKE10B-05R	Mean Well	18-36V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	35.65	32.08	28.30	25.78
217024	SKE10B-12R	Mean Well	18-36V	+12V@840mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	35.79	32.21	25.77	19.33
216945	SKE10C-05R	Mean Well	36-72V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	34.29	30.85	27.22	26.27
217032	DKE10A-05R	Mean Well	9-18V	+5V@1000mA; -5V@1000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	38.09	34.29	27.42	20.57
217092	DKE10A-12R	Mean Well	9-18V	+12V@420mA; -12V@420mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	36.35	32.72	26.18	19.64
217112	DKE10A-15R	Mean Well	9-18V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	34.95	31.46	25.17	18.88
217075	DKE10B-15R	Mean Well	18-36V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	36.69	35.16	32.87	24.65
155716	SKE15A-05R	Mean Well	9-18V	+5V@3000mA	15W	2.0x2.0x0.43	5	0.3	0.5	50	35.99	32.49	29.15	26.35
155708	SKE15A-12R	Mean Well	9-18V	+12V@1250mA	15W	2.0x2.0x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155695	SKE15A-24R	Mean Well	9-18V	+24V@625mA	15W	2.0x2.0x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213277	SKE15B-05R	Mean Well	18-36V	+5V@3000mA	15W	2.0x2.0x0.43	5	0.3	0.5	50	34.05	30.65	24.52	18.39
213285	SKE15B-12R	Mean Well	18-36V	+12V@1250mA	15W	2.0x2.0x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
213293	DKE15A-24R	Mean Well	9-18V	+24V@313mA; -24V@313mA	15W	2.0x2.0x0.43	5	0.3	0.5	80	32.95	29.66	23.73	17.80

25 to 150-Watt Enclosed Converters


SD150

- Input filter: Pi-network
- Working temperature: -10°C to +60°C
- 2:1 wide input range
- Protection: short circuit, overload and overvoltage
- Shielded metal case
- 100% burn-in test
- One-year warranty

25-Watt SD-25 Series: Single Output

- Isolation voltage: 500VDC

MEAN WELL — PERFORMANCE At Value Prices

50, 100 & 150-Watt SD-50, SD-100 & SD-150 Series: Single Output

- Isolation voltage: 1500VDC
- Mounting hardware: use P/Ns 222156 & 222173 (see web)

Jameco Part No.	Product No.	Input Range	Output Voltage@Current	Output Power	Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing 1	10	25	100
175662	SD-25A-5R	9-18V	+5V@5000mA	25.0W	3.9x3.8x1.4	5	0.5	0.5	100	$42.99	$32.54	$30.44	$26.24
175805	SD-25A-12R	9-18V	+12V@2100mA	25.2W	3.9x3.8x1.4	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175813	SD-25A-24R	9-18V	+24V@1100mA	26.4W	3.9x3.8x1.4	5	0.2	0.2	150	44.65	33.78	31.60	27.24
212549	SD-50A-5R	9-18V	+5V@10A	50.0W	6.3x3.8x1.5	5	0.5	0.5	100	35.79	32.53	29.58	26.89
212531	SD-50B-12R	19-36V	+12V@4.2A	50.4W	6.3x3.8x1.5	5	0.3	0.3	120	54.45	49.00	39.20	29.40
212514	SD-50B-24R	19-36V	+24V@2.1A	50.4W	6.3x3.8x1.5	5	0.2	0.2	150	44.05	41.35	33.08	31.86
212506	SD-50C-12R	36-72V	+12V@4.2A	50.4W	6.3x3.8x1.5	5	0.3	0.3	120	54.45	43.99	40.69	36.29
212469	SD-100C-12R	36-72V	+12V@8.5A	102.0W	7.8x3.9x1.5	7	0.3	0.3	120	76.25	64.57	60.99	53.81
217270	SD-150B-12R	19-36V	+12V@12.5A	150.0W	7.8x4.3x2.0	7	0.5	0.5	120	82.95	74.66	59.72	44.79

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1-800-831-4242

R RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

AC-to-DC Regulated & Unregulated Table-Top Power Supplies

Color Code Legend: New Sale Lower$ QtySave

Additional Table-Top Power Supplies are available online at www.Jameco.com/Power

See page 166 for International Power Cords

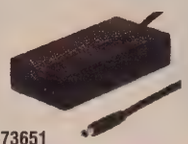
AC-to-DC Regulated Linear & Unregulated Table-Top Power Supplies


211060


689661


143714


391770


673651


220442

Quantity Save

We will change any power plug (pg 117) on any table-top power supply (100 pc. minimum) for a small additional charge.

Polarity 1 ⊕—(—⊖ (center negative)


Female Male DIN M Stripped

Polarity 2 ⊖—(—⊕ (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25	211060	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm F 2†	No	Black	3.4 x 2.7 x 2.2	6'6"/6'	1.7	UL/CSA	$12.19	$10.97	$8.78	$6.58
	174845	ReliaPro ♻	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.6	—	18.65	16.79	13.42	10.07
3-Wire AC Input – Regulated Linear																	
10-55	689661	Regal	R1JG-5500	30	+5/1; -5/0.5	120@60	5-pin DIN M	No	Black	5.1 x 3.6 x 2.8	6'/6'	2.7	UL	$21.95	$19.90	$17.40	$13.05
	689653	Regal	RJM-551228	55	+5/0.9; -5/0.2; +12/0.62; -28/0.16	120@60	6-pin DIN M	No	Black	5.1 x 3.6 x 2.8	6'/6'	1.3	CUL	24.95	22.45	19.09	14.31
2-Wire AC Input – Unregulated																	
10-30 Watts	190051	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'/6'	1.9	UL/CUL	$9.95	$8.99	$7.19	$5.39
	354941	Terayon ✔	AD-121ADT	12	+12/1.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.3 x 1.9	6'/6'	1.4	UL/CUL	11.05	9.39	7.98	5.99
	136565	ReliaPro	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	15.35	13.82	11.05	8.29
	140880	ReliaPro	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	15.85	14.24	12.10	10.30
	143714	— ⊕	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	CUL-No UL	19.75	17.76	15.99	14.39
	143722	ReliaPro ⊕	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	UL/CUL	18.19	14.55	12.73	11.99
	143731	— ⊕	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.9	CUL-No UL	15.49	13.94	11.15	8.37
	139096	ReliaPro	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	—	18.49	16.79	15.29	13.99
2-Wire AC Input – Regulated Switching																	
15-24 Watts	1586242	Phihong ♻	PSAA15W-050-R	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.0 x 1.2	6'/ 1	—	UL/CULTUV/CE	$20.49	$18.72	$17.31	$15.90
	379612	Mean Well ⊕	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	25.45	22.81	20.92	15.69
	379613	Mean Well ♻	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	22.29	19.98	17.49	16.66
	1707067	Mean Well	ES25B07-P1J	22	+7.5/2.93	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/ 1	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95
	195806	Horizon ♻	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	32.45	29.20	23.36	18.72
	195768	Mean Well ⊕	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	22.95	20.66	16.52	15.55
	1586251	Phihong ♻	PSAA15W-120-R	15	+12/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.0 x 1.2	6'/ 1	—	UL/CUL/TUV/CE	20.49	18.72	17.31	15.90
	391770	Mean Well ♻	ES18B12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	24.79	22.74	19.70	19.55
	673651	Artesyn	SSL20C-7612	20	+12/1.67	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.6 x 2.4 x 1.1	3'3"/ 1	0.4	UL/CSA/VDE	13.95	12.85	10.28	7.71
	1537555	APD	DA-24B12	24	+12/2.0	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.2 x 1.3	6'/ 1	0.4	UL/CUL/TUV/CE	18.95	17.95	16.15	13.95
	1707075	Mean Well	ES18B28-P1J	18	+28/0.64	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/ 1	0.5	UL/CUL/TUV/CE	18.09	16.28	13.90	11.26
	196138	DVE	DSA-0283A	23	+5/1, +12/1.49 -5/0.43	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6'/ 1	0.8	UL/CSA/TUV	19.95	18.95	15.48	11.62
25-50 Watts	379939	Mean Well ♻	ES25B09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	$23.39	$20.94	$18.33	$13.75
	377942	Mean Well ♻	P30B-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	26.99	24.13	23.41	22.70
	220442	Horizon ♻	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2†	Yes	Black	4.3 x 2.0 x 1.2	6'/ 1	0.6	UL/CUL/TUV/CE	29.95	26.96	21.56	16.17
	1586306	Phihong ♻	PSC60W-120-R	50	+12/4.16	90-264@47-63	2.1mm x 5.5mmF 2	Yes	Black	4.0 x 2.5 x 1.3	5'/ 1	—	UL/CUL/TUV/CE	36.55	33.37	30.75	29.21
	1707104	Mean Well	ES25B48-P1J	25	+15/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.2 x 2.1 x 1.3	6'/ 1	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95
	379972	Mean Well ♻	ES25B24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	22.75	20.39	17.85	13.39
	221613	Mean Well ♻	P30B-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	28.79	25.92	23.29	21.08
	205911	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6'/7'	1.1	UL/CUL	17.49	15.75	12.59	9.45
	1707139	Mean Well	ES25B48-P1J	25	+48/0.52	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/ 1	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95

* See accessory table-top power cord chart below when AC cord needed; refer to 1 or 2 in "Cord (DC/AC)" column above for correct power cord † Right angle

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

3-Wire Regulated Table-Top Power Supplies on next page

Accessory Power Input Cords for Table-Top Power Supplies


189587


38050

Accessory Power Input Cords for Table-Top Power Supplies

For more Power Cords see pages 165-166.

Part No.	Ref. No.*	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
189587	1	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	$2.89	$2.36	$2.24	$2.19
38050	2	3-conductor power cord ♻	Black	18/3	UL/CSA	6'	0.4	SVT	4.15	3.75	3.43	3.09

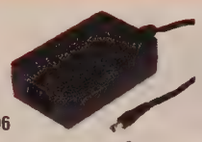
♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. ✔ This product has a RoHS equivalent, manufacturer may vary.

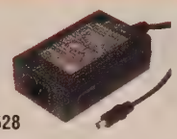
AC-to-DC Regulated Switching Table-Top Power Supplies

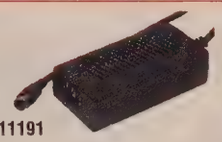
Additional AC-to-DC Table-Top Power Supplies are available online at www.Jameco.com/Power

See page 166 for International Power Cords


309876


377896


206528


211191

We will change any power plug (pg 117) on any table-top power supply (100 pc. minimum) for a small additional charge.

Polarity 1 ⊕—C—⊖ (center negative)


Female


Male


DIN M

Polarity 2 ⊖—C—⊕ (center positive)

NEW. Quantity Save

Power	Part Number	Brand ▲	Product Number ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
3-Wire AC Input – Regulated Switching																	
5-20 Watt	221568	Mean Well ≷	P40A-0P2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	$27.79	$25.04	$22.89	$22.32
	308700	Be-Well	ZD0001F	5	+5/1.0	100-240@50-60	2.1mm x 5.5mm F 2†	No	Black	4.2 x 2.0 x 1.6	6'/2	0.4	UL/CUL/TUV/CE	14.95	13.49	10.79	8.09
	1918737	Magtech	SPU15A-102	12	+5/1.0	100-240@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.6 x 1.5 x 1.4	6'/2	0.4	UL/CUL/TUV/CE	14.95	13.45	11.85	8.49
	309876	Go Forward	G112-USO520	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	2.6 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	17.75	15.98	12.78	9.59
	196218	GlobTek ⊕	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	695244	DVE	DSA-0151D-05	12	+5/2.4	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	3.9 x 2.0 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	17.29	15.95	12.76	9.57
	377845	Mean Well ≷	ES18A05-P1JU	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	26.25	21.83	18.78	14.09
	379720	Mean Well ≷	ES18A05-P1MU	15	+5/3.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.69	20.42	16.34	12.26
	380471	Mean Well ≷	ES25A05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.39	20.92	19.88	18.09
	213584	Mean Well ≷	P30A-1P2JU	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	25.69	23.05	22.06	20.96
	1586269	Phihong ≷	PSC30U-050-R	20	+5/5.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.6	UL/CUL/TUV/CE	27.25	24.78	23.27	22.37
	377862	Mean Well ≷	ES18A09-P1JU	18	+9/2.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/2	0.6	UL/CSA/TUV/CE	24.79	22.74	19.70	19.55
	379736	Mean Well ≷	ES18A09-P1MU	18	+9/2.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	228989	Phihong ≷	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	17.53
	376623	Mean Well ≷	ES18A12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.79	22.74	19.70	19.55
	1537432	Eng Electric	EPA-201D-12	20	+12/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.4 x 1.3	6'/2	0.2	UL/CUL/TUV/CE	16.95	15.25	13.49	11.49
	1707083	Mean Well	ES18A28-P1J	18	+28/0.64	100-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/2	0.5	UL/CUL/TUV/CB/CE	15.95	14.29	12.49	9.95
25-27 Watt	213576	Mean Well ≷	P40A-1P2JU	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	32.95	29.66	23.72	21.03
	211027	Mean Well	KA52B25-MODU	25	+9/2.78	100-240@47-63	2.1mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/2	0.9	CSA/TUV/CE	15.95	14.49	12.75	10.49
	379779	Mean Well ≷	ES25A12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	23.89	21.41	18.74	14.06
	380534	Mean Well ≷	ES25A12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.39	20.92	19.88	18.09
	377896	Mean Well ≷	P30A-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	26.99	24.85	23.66	22.47
	1707147	Mean Well	ES25A15-P1J	25	+15/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.6 x 2.1 x 1.4	6'/2	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95
	379824	Mean Well ≷	ES25A15-P1JU	25	+15/1.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.75	20.39	17.85	13.39
	243012	Mean Well ≷	P30A-41P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	26.15	24.05	22.91	21.75
	379883	Mean Well ≷	ES25A24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	23.39	20.94	18.33	17.46
	380577	Mean Well ≷	ES25A24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	221681	Mean Well ≷	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	31.25	28.13	25.30	22.76
	1707091	Mean Well	ES25A28-P1J	25	+28/0.89	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/2	0.4	UL/CUL/TUV/CE	14.95	13.45	12.78	12.14
	215088	Mean Well ≷	P30A-8P2JU	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	24.29	23.26	22.10	20.99
	196270	Everglow ≷	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	29.65	26.70	24.00	21.61
	190960	Mean Well ≷	P25A13D-R1U	26	+5/2.5, +12/0.8 -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	39.99	36.02	32.38	29.18
	221720	Mean Well ≷	P25A14E-R1BU	25	+5/2.5, ±15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	34.25	30.88	27.76	25.01
30-40 Watt	320081	GlobTek ≷	TR9CA6000LCP-Y	30	+5/6.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.7 x 2.4 x 1.3	6'/2	0.7	UL/CUL/TUV/CE	33.49	31.15	28.87	25.97
	206528	Mean Well ≷	P40A-1-1P25U	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6'/6'	1.5	UL/CUL/TUV/CE	33.05	29.75	26.44	24.23
	229009	Phihong ≷	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	27.19	24.70	22.72	21.18
	1586277	Phihong ≷	PSC30U-120-R	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	5'/2	0.6	UL/CUL/TUV/CE	27.25	24.78	23.27	22.37
	1918690	First Vision	SA06H12-A	30	+12/2.5	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.0 x 1.4	4'/2	0.6	UL/CUL/TUV/CE	22.95	20.65	18.15	15.49
	401042	ReliaPro ≷	EA10362	36	+12/3.0	120 240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.9 x 1.8 x 1.2	6'/1	6.0	UL/CUL/TUV/CE	23.69	21.17	19.14	18.19
	1586146	EDAC	EA10301	30	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	3.8 x 1.8 x 1.2	6'/2	0.7	UL/CUL/TUV/CE	18.95	17.10	15.39	13.75
	155214	Mean Well ≷	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV	40.25	36.19	32.56	29.32
	297693	Mean Well ≷	P40A-3P2MU	40	+12/3.3	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	355064	ReliaPro ≷	JR-TT-40-12	40	+12/3.33	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/2	0.6	UL/CUL/TUV/CE	34.69	27.75	24.29	23.04
	1708625	HiPro	HP02040043	40	+12/3.33	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.4 x 1.2	5'/2	0.7	UL/CUL/TUV/CE	18.95	16.95	15.25	12.95
	229017	Phihong ≷	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	28.15	25.25	23.41	21.46
	221576	Mean Well ≷	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	37.45	33.62	30.25	27.23
	229026	Phihong ≷	PSC30U-240-R	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	27.19	24.70	22.72	21.58
	181885	Mean Well ≷	P40A-6P2JU	40	+24/1.7	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	42.45	38.19	34.36	30.93
	297757	Mean Well ≷	P40A-6P2MU	40	+24/1.7	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	41.69	37.54	33.78	30.40
	221584	Mean Well ≷	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	37.35	33.62	26.90	22.18
	211191	Westinghouse	FSA30P31	30	+5/3, ±12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4'/2	1.1	UL/CSA/TUV	25.95	23.35	18.68	14.01
	404443	AcroPower	ASX30T-577/07	30	+5/3, ±12/0.1 -12/0.5	100-240@50-60	5-pin DIN M	No	Black	6.0 x 3.5 x 2.0	6'/6'	2.0	UL/CUL/CE	19.95	17.95	14.36	10.77

* See accessory table-top power cord chart on page 156 when AC cord needed; refer to [1] or [2] in "Cord (DC/AC)" column above for correct power cord † Right angle

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

3-Wire Regulated Table-Top Power Supplies continued on next page

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

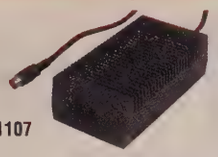
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AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

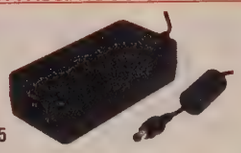
Color Code Legend: New Sale Lower$ QtySave

Additional Table-Top Power Supplies are available online at www.Jameco.com/Power

For International Power Cords see pages 166.

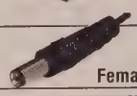

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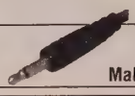

297722


1537125

We will change any power plug (pg 117) on any table-top power supply (100 pc. minimum) for a small additional charge.

Polarity 1 ⊕—(—⊖ (center negative)


Female


Male


DIN M

Polarity 2 ⊖—(—⊕ (center positive)

NEW Quantity Save

Power	Part Number	Brand ▲	Product Number ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
41-50 Watt	221488	Mean Well ≷	SPU50-1U	50	+5/10	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	2.0	UL/CUL/TUV/CE	$49.39	$44.47	$40.02	$36.02
	622547	Samsung	AD-4212L	42	+12/3.5	100-240@50/60	1.6mm x 4.0mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6'/[2]	0.6	UL/CUL/CE	21.95	19.75	15.80	11.85
	622555	Samsung	AD-4212L-2.1	42	+12/3.5	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6'/[2]	0.6	UL/CUL/CE	24.95	22.45	17.96	13.47
	1537256	Ault	PW125RA2403F2	41	+24/1.7	100-250@50-60	2.5mm x 5.5mm F 2	Yes	Black	3.9 x 2.6 x 1.7	6'/[2]	0.7	UL/CUL/TUV/CE	27.95	25.15	22.69	19.95
	221702	Mean Well ≷	P50A13D-R1BU	50	+5/4.0, +12/2.0 -12/0.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.5	UL/CUL/TUV/CE	56.35	50.75	45.68	41.08
	211107	Fortron	FSA55P31	45	+5/5, +12/3 -12/0.5	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4'/[2]	1.6	UL/CSA/TUV	49.95	44.96	35.96	26.24
	237366	Mean Well ⊕ ✪	P50A14E-R1BU	42	+5/3.5; +15/1.2 -15/0.3	100-240@47-63	5-pin DIN M	Yes	Black	5.8 x 3.0 x 1.7	4'/6'	1.2	UL/CUL/TUV/CE	40.05	36.05	35.12	34.18
51-80 Watt	155231	Mean Well ≷	SPU50-3U	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV	63.35	58.41	52.57	47.31
	297722	Mean Well ≷	SPU50-3P2MU	60	+12/5.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	49.95	44.95	44.45	43.96
	1586314	Phihong ≷	PSC60M-120-R	60	+12/5.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	5.1 x 2.4 x 1.3	4'/[2]	—	UL/CUL/TUV/CE	39.55	35.89	33.10	31.44
	376607	Mean Well ≷	P66A-3P2JU	66	+12/5.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	42.25	37.69	36.15	34.34
	379672	Mean Well ≷	P66A-3P2MU	66	+12/5.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	41.95	38.31	33.52	31.91
	221429	Mean Well ≷	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	74.69	67.23	60.50	50.41
	391743	Mean Well ≷	P66A-4P2JU	66	+15/4.4	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	42.25	37.25	36.05	34.05
	243046	Mean Well ≷	P66A-5P2JU	66	+18/3.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CUL/TUV/CE	46.19	41.90	38.66	35.46
	221445	Mean Well ≷	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	77.95	66.35	59.94	56.99
	161606	Mean Well ≷	SPU50-6U	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9"/6'	1.3	UL/CSA/TUV	49.45	43.95	41.95	37.95
	297634	Mean Well ≷	SPU50-6P2MU	60	+24/2.5	95-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	63.35	58.41	52.57	39.43
	1537125	EDAC ≷	EA1050B-240	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.8 x 2.4 x 1.4	6'/[2]	1.8	UL/CUL/TUV/CE	34.95	31.45	28.30	25.45
	355056	ReliaPro ≷	JR-TT-66-24	66	+24/2.75	90-264@50-60	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/[2]	1.2	UL/CUL/TUV/CE	45.45	43.16	41.00	38.94
	1708342	Potrans	BUP07211240	72	+24/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	5.3 x 2.3 x 1.4	6'/[2]	1.0	TUV/CE	39.95	35.95	31.29	26.95
	221453	Mean Well ≷	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x1.8	6'/6'	2.0	UL/CUL/TUV/CE	65.59	55.84	50.44	47.96
	1586322	Phihong ≷	PSC60M-240-R	60	+24/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	5.1 x 2.4 x 1.3	4'/[2]	—	UL/CUL/TUV/CE	39.55	35.89	33.10	31.44
	376615	Mean Well ≷	P66A-8P2JU	66	+48/1.37	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	49.95	41.79	37.99	36.10
	172065	Mean Well ≷	SPU50-9U	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CSA/TUV	53.95	48.59	43.74	42.37
	221462	Mean Well ≷	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	70.15	59.71	53.95	51.29
	1708633	INTL Power	HUP80-31Q8	60	+5/6; +12/2.12; -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	6.6 x 2.9 x 1.9	4'/[2]	1.2	UL/CUL/TUV/CE	29.95	27.95	25.15	21.35

* See accessory table-top power cord chart on page 156 when AC cord needed; refer to [1] or [2] in "Cord (DC/AC)" column above for correct power cord
▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek ✪ Blue Part No. = Limited Quantity Available

Energy Star/European Compliant Interchangeable-Plug Wall Adapters

Meets US and European Energy Star compliance.
Approved for European high-efficiency power applications.

- Field changeable AC plugs (sold separately, see below)
- Power-On LED
- Double insulated
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive
- Regulated output
- Class B EMI
- Energy Star and ECOC compliant


Shown with plug clip not included


Shown with plug clip included

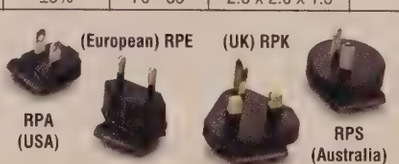
Wall Adapters (plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking

Part No.	Product No.	Power (W)	Output Volt. (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing 1	5	25	100
662881	PSM11R-120 ≷	10	12	0.84	120	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	$16.65	$15.80	$15.02	$14.27
1586226	PSA15R-050-R ≷	15	5	3.0	50	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	17.35	15.90	14.88	14.30
1586234	PSA15R-120-R ≷	15	12	1.25	120	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	17.35	15.90	14.88	14.30
662910	PSA15R-120P ≷	15	12	1.25	120	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89

Plug Clip Kit (sold separately, required for above adapters)

Part No.	Product No.	Description	1	10	50	100
229181	RPKIT ≷	Kit w/ RPA/RPE/RPK/RPS	$2.95	$2.66	$2.57	$2.54


RPA (USA) — (European) RPE — (UK) RPK — RPS (Australia)

More products available on our website. Visit us online today at www.Jameco.com

≷ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

AC-to-DC Table-Top Power Supplies & Wall Adapters

Additional Table-Top Power Supplies are available online at www.Jameco.com/Power

velleman 13W Compact Switching Power Supply



- Input voltage: 110-240VAC @ 50/60Hz
- Selectable outputs: 3VDC, 4.5VDC, 5VDC, 6VDC, 6.5VDC, 7VDC
- Power LED indicator
- Output current: 1.9A (2.5A maximum)
- Output connectors: 2.5mm x 5.5mm right angle, 2.1mm x 5.5mm right angle, 1mm x 5mm, 1.1mm x 3.8mm, 1.4mm x 3.5mm, & 0.75mm x 2.4mm

Part No.	Product No.	Size (H x W x D)	Price
1537539	PSSM10VU	3.2" x 1.2" x 2.2"	$32.95

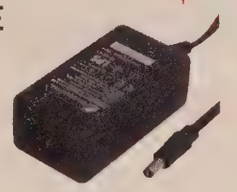
velleman 24-Watt Switching Power Supply



- Input voltage: 100-240VAC @ 50-60Hz
- Low electromagnetic interference
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China
- Output current: 2A
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm x & 1.7mm x 4mm

Part No.	Product No.	Size (H x W x D)	Price
1537491	PSSMV3	4.7" x 3.3" x 2.5"	$42.95

GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies



- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5% • 3-wire AC input
- 2.5mm x 5.5mm female center positive
- Cord lengths: DC: 6';AC: use P/N 115078, pg 165
- Ripple and noise:1% or 100mV, whichever is smaller
- UL/CUL/TUV/CE approved for medical applications
- Size: 2.9"L x 2.0"W x 1.6"H

Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing 1	10	50	100
230683	TR9CE1250CP ♻	15.6	+12/1.3	$34.29	$30.85	$27.77	$24.96
230691	TR9CG1200CP ⊕	18.0	+15/1.2	39.55	35.38	28.48	26.61
230763	TR9CE4000LCP ♻	49.2	+12/4.0	54.05	49.89	46.38	34.78
230798	TR9CI2100LCP ♻	50.4	+24/2.1	52.95	47.66	45.95	42.99

velleman Switching Table-Top Power Supplies



1537504

- Short circuit, overload protection
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Input voltage: 100-240VAC @ 50/60Hz
- LED power indicator

Includes: Power cord

1537504: 28 Watt
- Output voltage: 5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC, 15VDC
- Output current: 3.6A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.7mm x 4mm, 1.5mm x 5.5mm



1537521

1537521: 38 Watt
- Output voltage: 5VDC to 24VDC in 1V increments
- Output current: 1.5A to 4A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm, 2.5mm x 5mm



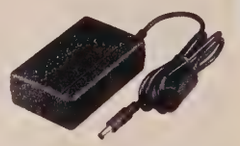
1537512

1537512: 70 Watt
- Output voltage: 15VDC/16VDC/18VDC/19VDC/20VDC @ 3.5A; 22VDC/24VDC @ 2.9A
- Output connectors: 2.1mm x 5.5mm right angle, 2.5mm x 5.5mm right angle, 1.64mm x 4.78mm, 2.99mm x 6.28mm, 6.5mm x 14mm

Part No.	Product No.	Size (L x W x H)	Price
1537504	PSSM4VU	3.8" x 2.2" x 1.2"	$55.95
1537521	PSSM6VU	3.5" x 1.8" x 1.2"	49.95
1537512	PSSMV7U	5.5" x 3.2" x 1.7"	95.95

PHIHONG Universal 60-Watt Table-Top Power Supply

RoHS and CEC Compliant



- Input voltage: 90-264VAC @ 40-50Hz (2-wire input)
- Short circuit, overcurrent, overvoltage protection
- Input power saving: 0.75W maximum for 240VAC @ no load • Efficiency: 80% typical
- Output voltage: 24VDC @ 2.5A
- 2.1mm x 5.5mm female center positive
- UL/CUL/TUV/CE approved

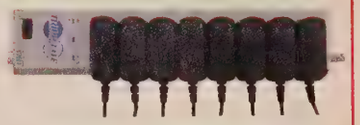
Part No.	Product No.	Size (L x W x H)	1	10	50
229843	PSC60W-240-R ♻	5.1" x 2.4" x 1.3"	$36.49	$32.85	$29.55

JAMECO ReliaPro "Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Output cord length: 6'
- Color: black
- Input voltage: 100 – 240VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm F2 (center positive)
- One-year warranty

We'll Brand the Adapters With Your Company Name Call 1-800-831-4242 for Details





JAMECO EXCLUSIVE — Quantity Save — LOWER PRICES

Part Number	Cross Ref. Number	Output Rating Volt (VDC)	Curr. (mA)	Size (H"xW"xD")	Wt. (lbs.)	Pricing 1	10	50	100
251564	S08AA033150 ♻	3.3	1500	2.5x1.1x1.7	0.2	$13.25	$11.93	$9.54	$7.16
251599	S15AA033250 ♻	3.3	2500	2.9x1.3x2.2	0.3	12.65	11.39	9.11	6.86
252701	S08AB050050 ♻	5.0	500	2.5x1.1x1.7	0.2	13.85	12.47	9.98	7.49
252719	S08AB050100 ♻	5.0	1000	2.5x1.1x1.7	0.2	12.45	11.26	10.39	10.03
252727	S08AB050150 ♻	5.0	1500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.21
252735	S15AB050250 ♻	5.0	2500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252752	S08AD090050 ♻	9.0	500	2.5x1.1x1.7	0.2	12.05	10.94	10.09	9.74
252770	S08AD090090 ♻	9.0	800	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252778	S15AD090120 ♻	9.0	1200	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252786	S15AS090170 ♻	9.0	1500	2.9x1.3x2.2	0.3	13.75	12.38	9.90	7.43

Part Number	Cross Ref. Number	Output Rating Volt (VDC)	Curr. (mA)	Size (H"xW"xD")	Wt. (lbs.)	Pricing 1	10	50	100
252794	S08AE120025 ♻	12.0	250	2.5x1.1x1.7	0.2	$11.55	$10.47	$9.67	$9.33
252807	S08AE120050 ♻	12.0	500	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252815	S08AE120070 ♻	12.0	600	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252823	S15AE120100 ♻	12.0	1000	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252832	S15AE120140 ♻	12.0	1250	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
254757	S15AF150080 ♻	15.0	800	2.9x1.3x2.2	0.2	13.45	12.11	9.69	7.27
252903	S15AF150120 ♻	15.0	1000	2.9x1.3x2.2	0.3	15.95	14.49	13.37	12.90
252858	S08AH240025 ♻	24.0	250	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252866	S15AH240050 ♻	24.0	500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252874	S15AH240063 ♻	24.0	630	2.9x1.3x2.2	0.3	13.75	12.47	11.94	11.52

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

AC-to-DC Regulated Switching Wall Adapters

Color Code Legend: New Sale Lower$ QtySave

Additional Wall Adapters are available online at www.Jameco.com/Power



319881

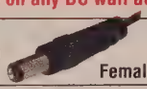
AC-to-DC Regulated Switching Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 117) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.



689864

Polarity 1 ⊕—●—⊖ (center negative)  Female Polarity 2 ⊖—●—⊕ (center positive)

LOWER PRICES

Part Number	Brand▲	Product Number▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50	Pricing 100
1586218	Phihong ♻	PSA05A-050-R	5	1000	Mini-USB	100-240@50-60	2.6 x 1.1 x 1.6	Black	6'	0.8	UL/CUL/TUV/CE	$7.89	$7.11	$6.89	$6.52
210894	ReliaPro ♻	S15AB050200	5	2000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	14.25	12.86	11.54	9.63
319881	Mean Well ♻	ES18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.65	12.60	11.79	10.98
379622	Mean Well ♻	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380323	Mean Well ♻	ES25U05-P1M	5	4000	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.75	14.68	13.63	12.57
380007	Mean Wel⊕ ✪	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.89	14.83	13.77	12.70
228947	Phihong ♻	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	19.69	17.72	15.94	14.35
319899	Mean Well ♻	ES18U09-P1J	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.05	12.03	11.26	10.48
380139	Mean Well ♻	ES25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6	0.5	UL/CUL/CE	15.89	14.83	13.77	12.70
380350	Mean Well ♻	ES25U09-P1M	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.85	13.77	12.12	10.47
1918817	Mean Well	SW12U12-P1I	12	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.6 x 2.0 x 1.0	Black	6'	0.4	UL/CUL	13.49	12.15	11.29	10.49
312865	Mean Well ♻	ES18U12-P1J	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	14.99	13.85	12.96	12.07
380155	Mean Well ♻	ES25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.09	14.03	13.32	12.67
380358	Mean Well ♻	ES25U12-P1M	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.79	15.39	14.94	14.23
1707112	Mean Well	SW12U15-P1I	15	800	2.1mm x 5.5mm F 2	100-240@50-60	2.6 x 2.0 x 1.0	Black	6'	0.5	UL/CUL/CE	14.95	13.49	11.95	9.95
319920	Mean Well ♻	ES18U15-P1J	15	1200	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.05	11.75	9.39	7.79
380172	Mean Well ♻	ES25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.75	14.03	13.60	10.20
380190	Mean Well ♻	ES25U18-P1J	18	1390	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.89	14.83	13.77	12.71
319928	Mean Well ♻	ES18U24-P1J	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.25	12.25	11.46	9.98
380201	Mean Well ♻	ES25U24-P1J	24	1040	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.49	14.85	13.74	12.70
380391	Mean Well ♻	ES25U24-P1M	24	1040	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380219	Mean Well ♻	ES25U28-P1J	28	890	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.15	14.08	13.37	12.71
380412	Mean Well ♻	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380243	Mean Well ♻	ES25U48-P1J	48	520	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380446	Mean Well ♻	ES25U48-P1M	48	520	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
Great Prices on Special Buys															
1809805	Globtek ♻	WR9HA1000C9P-F(R)	5	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.1 x 1.2 x 1.6	Black	6'	0.2	UL/CUL/CE	$12.95	$10.95	$9.95	$8.95
189190	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	10.95	9.85	8.59	6.75
689864	DVE	DSA-0151A-05	5	2400	2.5mm x 5.5mm right angle F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
1918702	Globtek ♻ †	GT-1441052-1506	6	2500	2.5mm x 5.5mm right angle F 2	100-240@50-60	2.9 x 1.7 x 1.5	Black	6'	0.5	UL/CUL/CE	11.95	10.49	8.95	7.95
1919158	Compaq	281855-001	5	3000	1.3mm x 3.5mm F 2	100-240@50-60	3.1 x 1.4 x 2.2	Black	6'	0.3	UL/CUL/TUL/CE	8.95	7.95	6.95	5.95

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek † Interchangeable plugs ✪ Blue Part No. = Limited Quantity Available

JAMECO ReliaPro

JAMECO EXCLUSIVE

AC-to-DC Regulated Linear Wall Adapters

- One-year warranty

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 117) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.



681571

Polarity 1 ⊕—●—⊖ (center negative)  Female Polarity 2 ⊖—●—⊕ (center positive)

NEW LOWER PRICES

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50	Pricing 100
164101	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	CSA	$10.95	$9.86	$8.87	$7.98
220935	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	15.49	13.93	11.15	8.36
168605	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	13.39	12.35	11.36	9.76
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.19	8.27	7.18	5.37
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	12.45	10.50	9.86	9.29
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	13.15	11.83	10.64	9.58
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	19.95	17.95	16.15	13.45
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	16.45	14.84	13.42	12.13
174879	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.05	12.70	11.40	10.29
Great Prices on Special Buys															
289182	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	$11.05	$9.95	$7.95	$5.95
319986	—	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	5.95	5.35	4.75	3.95
297941	—	JOD-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	10.95	9.95	8.49	6.95
681571	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	7.95	6.95	5.95	4.95
1919220	—	FE4823	5	1200	2.5mm x 5.5mm F 2	120@60	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	9.95	8.95	7.95	6.95
283573	—	DC600500	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
190529	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	7.15	6.44	5.79	5.21

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

RoHS RoHS Compliant Product ⊕ RoHS Also Available — Details on Order Info Page

AC-to-DC Unregulated Wall Adapters

Additional Wall Adapters are available online at www.Jameco.com/Power

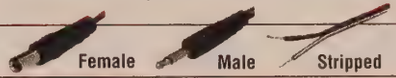
We specialize in Wall Adapters – Call for additional OEM PRICING.

JAMECO ReliaPro — JAMECO EXCLUSIVE

We will change any power plug (pg 117) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

• Input: 120VAC @ 60Hz • One-year warranty



Polarity 1 ⊕—C—⊖ (center negative)  Female Male Stripped Polarity 2 ⊖—C—⊕ (center positive)

c UL SP UL 280250

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50	Pricing 100
112070	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	$8.29	$7.47	$6.72	$6.05
155601	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	6.25	5.61	5.04	4.20
119255	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	5.95	5.36	4.82	4.14
101266	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.85	4.58	4.21	3.88
15544	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	5.49	4.97	3.97	2.98
147707	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	7.19	6.59	5.75	5.09
220943	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	10.45	9.95	7.79	6.44
220951	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	7.55	6.89	6.22	5.67
280250	ReliaPro	DDU075110	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.39	7.55	6.04	4.53
127511	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	9.49	8.21	7.23	5.43
100845	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	4.37	4.07	3.70
134025	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	6.65	5.99	4.79	3.59
100837	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	5.25	5.19	4.74	4.29
133891	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	4.45	4.37	4.07	3.70
189238	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.35	4.52	3.71	2.96
318676	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.65	5.46	4.97	4.51
202155	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	4.95	4.40	3.95	3.56
140636	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	5.49	4.49	3.99	3.68
202171	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	5.45	5.32	5.09	4.90
163628	ReliaPro ♻	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	7.09	6.38	5.75	5.10
100853	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.19	5.14	5.09	4.67
147731	ReliaPro ⊕	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	5.45	5.25	4.74	4.26
236937	ReliaPro	DCU090050A	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.25	5.99	5.87	3.79
15561	ReliaPro	DCU090050	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	6.45	5.78	5.20	4.68
202180	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.19	5.07	4.90	4.67
100175	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.09	5.80	5.23	4.75
202198	ReliaPro	DCU09080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	9.59	8.82	7.22	5.41
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	11.05	9.55	8.42	6.32
127504	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.49	8.53	7.68	6.38
15587	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.35	8.43	6.74	5.06
130526	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	9.85	8.86	7.29	6.59
143693	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	10.99	9.49	8.49	6.99
163993	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.80	4.33
100095	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	5.19	4.70	3.75	2.80
158043	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.85	4.54	3.81	2.85
220433	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	5.19	4.68	3.75	2.81
185658	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.29	4.76	3.81	2.86
219601	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	5.29	4.73	3.77	2.95
318692	ReliaPro	DBU120030	12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	3.73	3.29	2.87
127976	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	5.99	5.66	5.04	4.64
249236	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	6.45	5.79	4.64	3.48
190503	ReliaPro ♻	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	10.35	9.32	7.46	5.63
114825	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.29	4.99	4.37	4.10
15368	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	8.29	7.47	6.72	6.04
102496	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	6.15	5.41	4.92
131300	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	7.25	6.53	5.65	4.95
102277	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	7.19	6.47	5.83	5.24
17267	ReliaPro	DCU120050	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.05	5.80	5.23	4.75
202201	ReliaPro	DCU120060	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.45	6.92	6.09	4.56
202219	ReliaPro	DCU120070	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.85	6.17	4.94	3.70
121232	ReliaPro	DDU120080	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.29	6.56	5.25	4.93
117479	ReliaPro	DDU120080	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.99	7.36	6.77	6.23
129331	ReliaPro	DDU120080	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.39	6.65	5.98	5.38
100870	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	10.79	9.71	8.74	7.86
105478	ReliaPro	DDU120100	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.25	7.42	6.30	4.75
15392	ReliaPro	DDU120100	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.75	7.88	7.09	6.39
196779	ReliaPro	DDU120120	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.69	8.70	7.81	6.92
203036	ReliaPro	DDU120150	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.39	12.95	10.39	7.77
313226	ReliaPro	DFU120150	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	12.59	11.33	9.06	6.80
136881	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.99	13.49	11.99	10.99
101291	ReliaPro	D571201500U	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	13.85	12.89	11.72	10.65
249738	ReliaPro ⊕	MW57-1202000	12	2000	Stripped & tinted	3.3 x 2.7 x 2.2	Black	10'	2.0	UL/CUL	9.95	8.95	8.05	7.25

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek

More AC-to-DC Wall Adapters listed on pages 160 & 162

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: New Sale Lower$ QtySave

AC-to-DC Unregulated Wall Adapters (Continued)

Color Code Legend: New Sale Lower$ QtySave

Additional Unregulated Wall Adapters are available online at www.Jameco.com/Power

JAMECO ReliaPro | JAMECO EXCLUSIVE

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 117) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

• Input: 120VAC @ 60Hz • One-year warranty

Quantity Save

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating Voltage (VDC)	Output Rating Curr. (mA)	Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
308099	ReliaPro	DDU135100	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	$9.89	$8.90	$7.12	$5.34
212821	ReliaPro	DBU140030	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	5.45	4.90	3.91	3.37
123932	ReliaPro	DDU140070	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.35	8.41	6.89	6.19
202243	ReliaPro	DDU140070	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	12.89	11.62	9.28	6.96
202260	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	10.95	9.56	8.60	6.45
190001	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	6.79	6.18	4.96	4.38
189982	ReliaPro	DCU150050	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.99	7.27	5.83	4.38
155803	ReliaPro	DDU150060	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	10.89	9.85	8.86	6.65
203502	ReliaPro	DDU150090	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.95	9.59	8.59	6.36
151992	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	9.35	8.41	6.72	5.04
191652	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	11.09	9.99	8.99	8.09
162317	ReliaPro	DDU165050	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	10.49	9.18	8.24	7.38
181729	ReliaPro	DCU180025	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	7.65	6.89	5.50	4.12
163272	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	5.65	5.09	4.42	3.75
206958	ReliaPro	DDU180100	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.86	7.91	5.93
102285	ReliaPro	DDU240040	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.75	7.91	7.09	6.43
163635	ReliaPro	DDU240050	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	14.99	13.80	11.35	9.79
191556	ReliaPro	DDU240050	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.79	9.28	9.10	8.93
139088	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	11.99	10.19	9.29	7.79
168495	ReliaPro	DFU240080	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	12.89	11.60	10.44	9.40
220960	ReliaPro	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	16.05	14.96	13.16	9.87
249130	ReliaPro	AFU240120/G8530	24	1200	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.79	14.21	11.37	8.53
249121	ReliaPro	DFU240120/G8520	24	1200	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	21.59	21.10	17.71	16.90
249113	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
199523	ReliaPro	DDU300050	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	11.75	10.55	8.44	6.33
215095	ReliaPro ⊕	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.35	7.52	6.02	4.52
215109	ReliaPro ♻	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	10.95	9.86	7.89	6.35
230640	ReliaPro	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	11.95	10.76	8.60	6.45
15309	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **Female** 2.5, 3.5 **Male**, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.99	8.99	8.09	6.07
123158	ReliaPro †	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **Female** 2.5, 3.5 **Male**, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	None	10.95	9.86	8.87	7.98

Great Prices on Special Buys

320303	Globtek	WRIA1000CCP-N	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	$9.49	$8.55	$6.85	$5.15
302439	—	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.45	3.95	2.95
248751	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50
1581337	KTEC	KA12D0751120045U	7.5	1200	2.1mm x 5.5mm F 2	3.0 x 2.2 x 1.7	Black	6	0.9	UL/CUL	6.49	5.85	4.69	3.50
355936	—	35-9-200C	9	200	1.3mm x 3.5mm F 2	2.5 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.49	3.49	2.62
1585995	Motorola	SPN4622A	9	300	2.1mm x 5.5mm F 2	2.3 x 1.8 x 1.5	Black	6'	.40	UL	3.95	3.59	3.29	2.95
1586162	CUI Stack	DPD090050	9	500	3.5mm M 2	2.3 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.39	3.85	3.19
1810081	CUI Stack	DV-9500	9	500	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.39	3.85	3.19
170270	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.95	4.46	3.56	2.67
164929	Horizon	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	10.99	9.55	8.39	6.79
227774	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	5.95	5.35	4.75	3.95
421690	—	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	5.99	5.45	4.35	2.99
1586082	GTE	ADP2108GT	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.95	5.35	3.95	3.49
457799	Condor	DSA-0151F-09	9	2000	2.1mm x 5.5mm F 1	3.2 x 2.1 x 1.7	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
684836	Southwest Bell	KEC-41-100-5	10	500	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.62
1537441	CUI Stack	KA12D1200450344	12	450	2.1mm x 5.5mm F 2	2.5 x 1.8 x 1.5	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695252	—	L4D-120050R	12	500	1.3mm x 3.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.16	2.37
695261	—	L4D-120050R-2.5	12	500	2.5mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.16	2.37
695279	—	L4D-120050R-3.5	12	500	3.5mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.16	2.37
305103	—	AD1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.19	4.71	3.72	2.79
240101	Broadxent	AD-121AN	12	1000	2.1mm x 5.5mm F 2	2.8 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.49	6.75	5.95	4.46
189579	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	5.95	5.49	4.75	3.95
1585987	Globtek	GT-357-12-1500	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.5	UL/CUL	10.95	9.85	8.59	7.25
1928151	Leader	481215003CT	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.3 x 2.1	Black	6'	1.5	UL/CUL	10.95	9.85	8.59	7.25
129314	—	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	3.95	3.49	2.62
681563	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	8.95	7.95	6.95	5.90
217568	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	5.99	5.39	4.31	3.23
206957	GlobTek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.4	None	9.95	8.96	7.16	5.37

† 120 to 220VAC

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Wall Adapters and Transformers are available online at www.Jameco.com/Power

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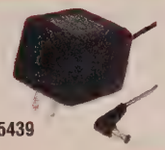
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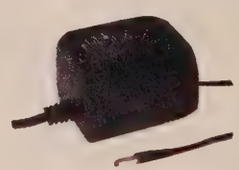

206439

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating Voltage (VAC)	Output Rating Current (mA)	Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
249017	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	$6.19	$5.61	$4.47	$4.02
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	6.39	5.75	4.89	3.99
236814	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	6.55	5.88	5.30	4.77
102234	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
157041	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	9.19	8.27	7.44	6.70
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	13.75	12.71	10.87	9.40
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.29	6.05	5.93	5.44
10081	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	7.59	7.19	7.19	5.99
100167	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	7.59	7.19	6.87	5.99
10428	ReliaPro	ACU120100	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	6.09	5.48	4.38	3.29
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	7.59	6.87	6.10	5.13
307838	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	14.45	13.01	10.41	7.81
153761	ReliaPro	ADU120160	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	14.45	13.01	11.72	10.54
318684	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	14.35	10.80	9.64	8.22
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.49	9.46	7.56	5.67
163053	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	9.85	8.87	7.10	5.33
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	9.85	8.86	7.09	5.32
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	6.89	6.52	6.25	5.48
140599	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	11.85	10.50	8.43	6.35
10102	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.49	9.47	8.51	7.14
176356	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	None	13.85	12.88	10.53	8.31
Great Prices on Special Buys														
210729	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	$3.95	$3.49	$2.95	$2.19
233294	Horizon ℛ	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	5.65	5.09	4.07	3.05
1581281	—	AA-091A	9	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.29
1586154	—	A9-1A	9	1000	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.29
320258	Ault	T48091500A010G	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.95
217550	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	4.95	4.45	3.95	3.29
688634	—	PP-1012-A	10	1200	2.5mm x 5.5mm F	3.5 x 2.5 x 1.9	Black	6'	1.3	UL	3.95	3.49	2.95	2.49
1707155	Multi-Link	AA-1250G	12	500	2.1mm x 5.5mm F	2.2 x 2.1x 1.6	Black	6'	0.6	UL	4.49	3.95	3.49	2.95
309884	—	AA-121A	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	—	UL/CUL	4.95	4.49	3.79	2.95
206404	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.95	6.95	6.25	5.59
421585	JBL Inc	A12-1A-01	14	850	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	White	6'	0.6	UL/CSA	5.95	4.95	3.95	3.29
185439	Horizon	T5182200-A020G†	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	None	11.05	9.90	7.92	6.10
206439	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.95	6.95	6.25	5.59

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek †3-Prong

36-Watt AC-to-AC Table-Top Power Supply

- Input voltage: 120VAC @ 60Hz
- Output voltage: 12VAC @ 3A
- Input connector: 6' long/2-prong AC plug
- Output connector: 6' long/2.1mm x 5.5mm female



Part No.	Product No.	Size (L x W x H)	Listing	1	10	50
455611	D571203000	3.6" x 2.6" x 2.3"	UL/CUL	$11.95	$10.70	$9.68

International Step-Up & Step-Down Transformers

- Wide selection to meet your power requirements

Part Number	Cross Ref. Number*	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions H"	W"	D"	Wt. (lbs.)	Pricing 1	10	100
99477	AC220V50	1/A	Auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	$8.95	$8.09	$7.25
85008	AC220V300	2/A	Auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	33.55	29.88	26.88
221331	G1S-500ℛ	2/A	Isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	102.85	87.42	65.56
221217	P8689 ⊕	2/A	Auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	91.75	87.45	81.92
99573	AC110V50	1/B	Auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	10.65	8.78	8.27
85016	AC110V300	2/B	Auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	33.55	29.88	23.10
111851	AC110V500	2/B	Auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	55.95	50.35	48.49
142906	AC110V1500 ⊕	2/B	Auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	99.99	89.99	79.99


Fig. 1



Fig. 2


Fig. A Plug


Fig. B Plug


Output Receptacle

* Manufacturer may vary

ℛ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Transformers are available online at www.Jameco.com/Power

115VAC and 115/230VAC Power Transformers

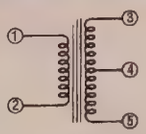
Quantity Save

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

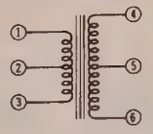
- Primary: 115VAC or 115/230VAC, 50-60Hz



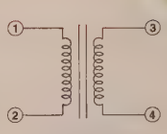
29226



115VAC 50-60Hz
Fig.1



115/230VAC 50-60Hz
Fig. 2



115VAC 50-60Hz
Fig. 3



Part No.	Cross Ref. No.	Triad Cross#	Primary Color Code			VA	Secondary Voltage	Secondary Color Code			Lead Type	Fig.	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
102163	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.84	2.40	1.67	0.8	$13.29	$11.30	$8.47
105523	XFR0910 ⊕	— ✪	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.82	2.43	1.67	0.7	7.85	6.68	5.01
221400	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	3	1.89	2.75	1.99	1.3	9.15	7.78	5.84
29226	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.41	2.79	1.99	1.5	13.29	11.30	8.48
102155	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	13.15	11.27	8.39
149771	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	3.20	2.25	2.2	16.09	14.52	13.03
102121	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.21	2.26	2.7	17.55	15.84	14.22
105532	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.20	2.81	1.99	1.2	9.19	8.28	6.21
149957	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.25	3.15	2.71	1.8	9.59	8.49	7.45
221382	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.80	1.97	0.6	8.25	7.01	5.26
102112	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.41	2.80	1.99	1.5	10.75	9.14	6.86
221373	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.44	3.60	2.23	2.3	12.45	10.58	7.94
112513	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	2.33	3.16	2.28	1.8	13.95	12.60	11.32
221365	P-8663 †	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	1	2.81	2.94	4.00	4.0	20.95	19.72	16.52
221410	P-8666 ⊕ †	F226U✪	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	1	4.63	3.75	4.63	11.2	59.55	53.95	44.95
221411	P-8666 †	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	1	4.63	3.75	4.63	11.2	42.29	38.68	36.80
99654	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	3.22	2.30	2.5	14.55	12.37	9.28
102104	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	3.22	2.26	2.8	17.59	15.82	11.86
149797	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	3.22	2.26	2.3	12.95	11.69	8.59

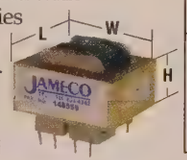
† Solder terminals * Center tap # Triad cross is for reference only ✪ Blue Part No. = Limited Quantity Available

Split-Bobbin Power Transformers

Quantity Save

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement



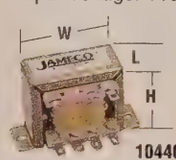
148559

Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
221292	DSW-312 ⊕	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	$7.39	$6.84	$5.13
102534	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	9.55	8.60	6.45
102593	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	6.75	5.29	4.73
148559	XFR3603SB ⊕	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.46	0.7	8.15	6.23	4.67

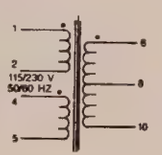
* Triad cross is for reference only

Quick-Connect Power Transformers

- Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Input voltage: 115/230VAC, 50-60Hz • Terminals: quick-connect, solder



104408



Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
104408	XFR1635Q ⊕ ✪	FD716†	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	$15.55	$11.99	$10.79
101864	XFR2424Q ⊕ ✪	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	14.35	11.63	10.40
104417	XFR3615Q	FD736	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	11.69	9.94	7.45

† Terminal solder lug are on same side * Triad cross is for reference only ✪ Blue Part No. = Limited Quantity Available

110/220VAC Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

LOWER PRICES



121276

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V (P/N 10401)	9.4 x 6.5 x 7.7	14.8
152582	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121276	500VA trans.	$95.95	$81.54	$67.30
129008	1000VA trans.	189.69	161.24	120.93
152582	2000VA trans.	209.89	188.90	141.67

320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 and 109112 (disconnect .25" solderless terminals), pg 116
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- One-year warranty



Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149324	320VA variable	$54.99	$49.99	$44.99

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

550VA Variable AC Transformer

- Input volt.: 110VAC @ 60Hz
- Output volt.: 0-140VAC • Panel mount
- Rated current: 5A • One-year warranty
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H • Weight: 6.8 lbs.



Part No.	Description	1	10	50
152937	550VA variable	$71.99	$64.79	$60.91

120VAC to 120VAC Isolation Transformer



300VA

- Input connector: 5.5' cord with 2-prong plug • Input voltage:120VAC @ 60Hz
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D • Weight: 7.0 lbs.

Part No.	Cross Ref. No.	1	10	100
181315	ITR300 ⊕	$52.89	$46.11	$41.50

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional Power Cords are available online at www.Jameco.com/Power

EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



Round

Part No.	Size (OutDia. x InDia. x L)	1	10	100
218174	.64" x .20" x 1.15" ♻	$.99	$.84	$.63
217841	.78" x .34" x 1.40" ⊕	1.45	1.29	1.15
318705	.82" x .45" x 1.42" ⊕	1.18	.99	.77

Square

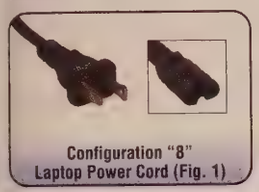
Part No.	Size (L" x W" x H")	1	10	100
421681	1.30 x .70 x .77 (black)	$1.85	$1.57	$1.18

Current Sensing Transformer

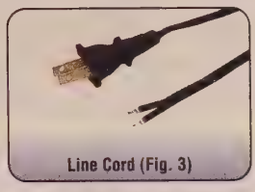
- Inductance: 5mH • Turns: 60
- Sensitivity current (I_{in}): 1A
- Freq. range: 10-50 kHz
- Sensitivity voltage (V_{out}): 1V
- Terminating resistor: 50Ω
- Max. current: 300mA • Size: 0.7"W x 0.46"D x 0.8"H

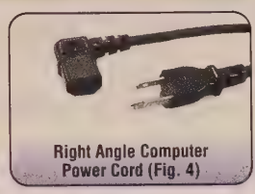


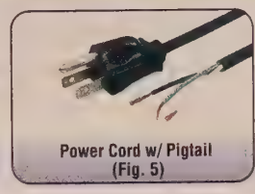
Part No.	Cross Ref. No.	1	10	100
164718	MTC30101 ⊕	$2.15	$1.83	$1.37

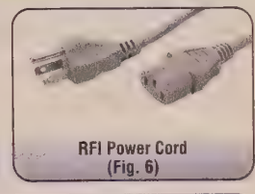

Configuration "8" Laptop Power Cord (Fig. 1)


Configuration "D" Laptop Power Cord (Fig. 2)

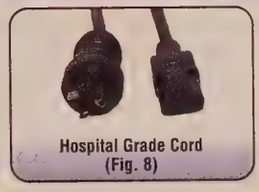

Line Cord (Fig. 3)


Right Angle Computer Power Cord (Fig. 4)

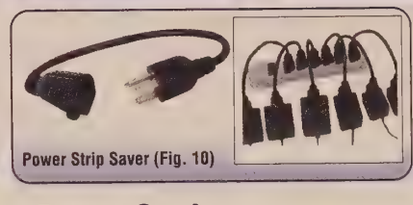

Power Cord w/ Pigtail (Fig. 5)

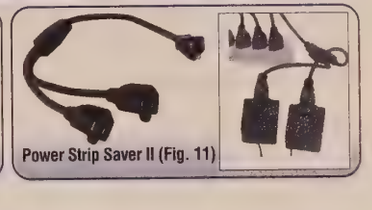

RFI Power Cord (Fig. 6)


Power Supply Extension Cord (Fig. 7)


Hospital Grade Cord (Fig. 8)


Monitor Power Adapter Cord (Fig. 9)


Power Strip Saver (Fig. 10)


Power Strip Saver II (Fig. 11)

General Purpose Power Cords

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C

2-conductor "8" style power cord for laptops and power supplies

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
189587	VW-1	.30	1	6'	Black	18/2	SPT-2	$2.89	$2.36	$2.24	$2.19

2-conductor "D" style power cord for laptops and power supplies

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
200791	LL114039	.30	2	6'	Black	18/2	SPT-2	$2.39	$2.15	$1.72	$1.29

3-conductor power supply cord (shielded)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
1918711	LL43774	.40	4	6'	Black	18/3	SVT	$3.59	$3.25	$2.95	$2.49
1537459	LL6415	.40	6	9'10"	Beige	18/3	SJT	3.95	3.39	3.09	2.79

3-conductor power cord with pigtail

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
1585522	—	.56	5	6'	Black	14/3	SJT	$3.95	$3.59	$3.19	$2.85
279662	32V86S	.32	5	6'	Black	18/3	SVT	3.59	3.14	2.85	2.79
1585514	CPB-FL-08	.56	5	8'	Black	18/3	SJT	3.49	3.15	2.85	2.49

3-conductor power supply cord

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
1585637	171096	.60	6	8'	Black	18/3	SVT	$3.49	$3.15	$2.75	$2.29
1537230	LL34877	.72	6	8'	Black	16/3	SJT	4.55	4.09	3.69	3.35

3-conductor computer power supply extension cord

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
420224	10W1-02212	.53	7	12'	Black	18/3	SVT	$3.89	$3.02	$2.87	$2.73
319804	LR94903	.82	3	10'	Gray	18/3	SVT	4.99	4.49	3.59	2.69

3-conductor power cord w/hospital grade male (green dot)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
1537563	17510A	.82	5	10'	Gray	14/3	SJT	$9.95	$8.95	$7.95	$6.95

Jameco ValuePro™ Power Cords

2-conductor power cord with pigtail

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
124434	ST008 ♻	.16	3	6'	Black	18/2	SPT-2	$1.43	$1.35	$1.28	$1.22

3-conductor right-angle power supply cord

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
117356	8120-6177 ⊕	.41	4	6'	Gray	18/3	SVT	$3.95	$3.56	$3.19	$2.11
38077	17250R ♻	.54	4	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55

3-conductor power cord with pigtail

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
38009	17237 ♻	.31	5	6'	Gray	18/3	SVT	$2.89	$2.52	$2.33	$2.22
37997	17236 ♻	.30	5	6'	Black	18/3	SVT	3.35	2.79	2.54	2.39
159410	17405B ♻	.37	5	6'	Black	18/3	SJT	3.09	2.58	2.34	2.15
102007	17535B ♻ †	.49	5	10'	Black	18/3	SVT	4.15	3.85	3.33	3.17
196286	LL40378 ♻	.80	5	10'	Black	16/3	SJT	5.89	5.39	4.31	3.86
100272	17629B ♻	.88	5	9'	Black	14/3	SJT	5.89	5.30	4.91	4.66

3-conductor power supply cord (shielded)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
213874	17660BG	.40	6	6'	Beige	18/3	SVT	$3.79	$3.41	$3.10	$2.78

3-conductor computer monitor power adapter cord

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
177448	MPC1 ♻	.16	9	1'	Black	18/3	SVT	$3.69	$3.05	$2.44	$1.83

3-conductor power supply cord

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
103747	17248 ⊕	.34	6	6'	Gray	18/3	SVT	$4.65	$4.17	$3.54	$2.66
38041	17249 ♻	.37	6	6'	Beige	18/3	SVT	4.05	3.37	3.03	2.27
38050	17250 ♻	.36	6	6'	Black	18/3	SVT	4.15	3.75	3.43	3.09
132118	17500 ♻	.44	6	6'	Black	18/3	SJT	4.49	4.04	3.65	3.29
117584	17502 ♻	.37	6	8'	Gray	18/3	SVT	7.05	6.34	5.07	3.80
171096	17758	.60	6	8'	Black	18/3	SJT	4.95	4.49	4.09	3.69
102024	17501V ♻	.55	6	10'	Black	18/3	SVT	4.75	4.07	3.71	3.35
163361	6952299 ⊕	.33	6	14'	Black	18/3	SJT	5.39	4.85	3.88	2.91

3-conductor computer power supply extension cord

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
28468	PEC	.36	7	6'	Black	18/3	SVT	$3.89	$3.50	$3.15	$2.85

3-conductor power cord w/ hospital grade male (green dot)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
132011	17006G ♻	.82	8	10'	Gray	16/3	SJT	$9.95	$8.96	$8.05	$7.25
115078	17006 ♻	.84	8	10'	Black	16/3	SJT	9.95	8.98	8.05	7.27

3-conductor power cord (power strip saver)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
199778	PSS-1 ♻	.16	10	1'	Black	18/3	SVT	$2.05	$1.85	$1.67	$1.25

3-conductor power cord ("Y" type power strip saver)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	50	100
208347	GPR-2006 ♻	.38	11	2'	Black	18/3	SVT	$5.95	$5.63	$5.42	$5.15

* **Thermoplastic Cord Jacket Type: SPT-2 (Flat):** *Junior duty;* **SVT (Round):** *Light service;* **SJT (Round):** *Junior service*

† *European standard insulation color code*

Committed to You — We're committed to providing you with the best service in the industry.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Color Code Legend: New Sale Lower$ QtySave

Color Code Legend: New Sale Lower$ QtySave

Additional Power Cords are available online at www.Jameco.com/Power

Jameco ValuePro™ Power Cords (Continued)

JAMECO EXCLUSIVE

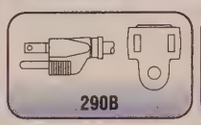

Power Cord w/ Pigtail (Fig. 1)


"Y" Twin End Power Cord (Fig. 2)


Right Angle Computer Power Cord (Fig. 3)

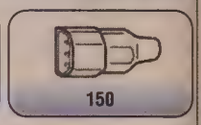

Detachable Power Cord Shielded PVC (Fig. 4)

Plug Detail – Industry Standard Designations


290B


910


386A/386E


150

Part No.	Volex X-Ref.	Fig.	Plug Detail	Length	AWG (Stranding)	Cord Type*	Pricing 1	10	50	100
3-conductor power cord w/ pigtail, NEMA 5-15P plug, PVC, black										
38025	17238	1	—	8'	18/3	SVT	$2.59	$2.18	$2.03	$1.52
3-conductor power cord w/ pigtail, NEMA 5-15P plug, shielded, black										
166925	17516	1	—	6'7"	14/3	SJT	$7.19	$6.52	$5.24	$4.42
3-conductor power cord w/ pigtail, NEMA 5-15P plug, unshielded, black										
339733	17534	1	290B	6'7"	18/3(41x34)	SVT	$2.35	$1.74	$1.65	$1.60
3-conductor power cord w/ pigtail, NEMA, PVC, unshielded, gray										
173810	17405	1	—	6'	18/3	SJT	$2.35	$2.15	$1.89	$1.59
3-conductor power cord w/ pigtail, unshielded, black										
340056	17537	1	910	9'10"	18/3(41x34)	SJT	$3.19	$2.71	$2.30	$1.96
3-conductor power cord, "Y" twin end, black										
340566	17268A	2	150/250A	4'	18/3(41x34)	SJT	$7.85	$5.84	$5.56	$4.17
3-conductor right angle detachable power cord, shielded, PVC, black										
173252	17745	3	—	6'	18/3	SVT	$4.75	$4.27	$3.42	$2.57
3-conductor right angle detachable power cord, unshielded, PVC, black										
177383	17507 ⊕ ✪	3	—	10'	18/3	SJT	$4.75	$4.29	$3.81	$3.21
3-conductor detachable power cord, shielded, PVC, black										
161761	17742	4	290B/386A	6'	18/3	SVT	$4.75	$4.28	$3.42	$2.57
340110	17742 ✪	4	290B/386A	6'7"	18/3	SVT	3.49	3.14	2.85	2.60
159361	17602 ⊕	4	—	6'	16/3	SJT	3.79	3.41	2.73	2.05
3-conductor detachable power cord, unshielded, PVC, black										
340291	17001A	4	290B/386E	3.0'	16/3(26x30)	SJT	$3.89	$3.50	$2.80	$2.10
125541	17504	4	—	6'7"	14/3	SJT	6.19	5.59	5.04	4.49

* *Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service*

✪ Blue Part No. = Limited Quantity Available

International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- BSI: British Standard Institution
- Voltage rating: 300V
- Cord type: H05VVF
- Cord color: black


117911/174633 (End 1)


117911 (End 2)


174633 (End 2)

Part No.	Cross Ref. No.*	Country	Agency Approvals	Cord Length	Conductors	Pricing 1	10	100	250
117911	PCVDE-6B	Europe	All in Fig. 1	6 ft.	3/0.75mm²	$6.49	$5.79	$5.52	$4.65
174633	21071H5182	UK/Ireland	BSI	8 ft.	3/1.0mm²	7.79	7.01	6.32	5.59

* Manufacturer may vary

European Agency Approvals

Germany	VDE		France	LCIE	
Austria	OVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

Fig. 1

Power Entry Filters and AC Receptacles

JAMECO EXCLUSIVE

Fig. 1 (Solder Terminals)

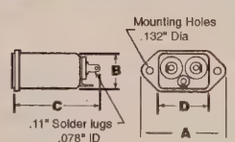
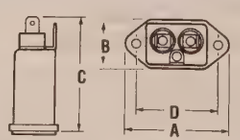
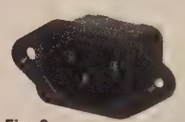


Fig. 2 (Fast-on Terminals)




Fig. 3

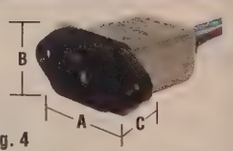


Fig. 4


Fig. 5

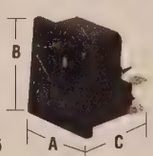


Fig. 6

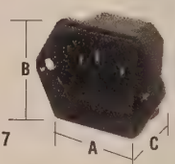


Fig. 7

Quantity Save

- Frequency: 50/60Hz

Part No.	Cross Ref. No.	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (inches) A	B	C	D	Pricing 1	10	100	500
150615	03AC1 ⊕	Power entry filter, straight (flanged)	1	3	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.58	1.58	$6.55	$5.90	$4.71	$3.53
667438	YB03A1-A	Power entry filter, straight (flanged)	2	3	250	Fast-on	UL/CSA/VDE	0.26"	2.05	0.98	2.15	1.58	4.95	4.29	4.19	4.08
16652	JR101	AC power inlet (male) flanged solder	3	10	250	Fast-on	UL/CSA/VDE	0.187"	1.96	0.89	1.07	1.58	1.17	1.05	.94	.85
Great Prices on Special Buys*																
165016	SUP-J15G-E-2	Power entry filter, straight (flanged)	1	15	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.18	1.58	$4.95	$4.49	$3.95	$3.49
210913	01GEEW3E	Power entry filter, straight (flanged)	4	1	250	Wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	3.95	3.49	2.95	2.25
147109	42R02 ⊕	AC power inlet (male) snap-in	5	15	250	Fast-on	UL/CSA	0.25"	1.22	0.94	1.13	N/A	.95	.79	.69	.59
184903	42R363152I0U	AC power inlet (male) w/ switch (snap-in)	6	10	250	Fast-on	UL/CSA/VDE	0.25"	1.30	1.58	1.42	N/A	1.95	1.65	1.39	1.19
265527	WS-044† ⊕	AC power inlet (male) w/ fuse chamber (snap-in)	7	10	250	Fast-on	UL	0.185"	1.73	1.29	0.77	1.42	1.95	1.65	1.39	1.19

† Includes spare fuse holder – fuse type 5mm x 20mm (250V) *Manufacturer may vary

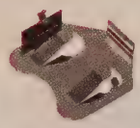
Free Technical Support

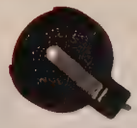
Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

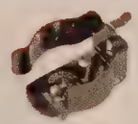
Additional Battery Holders are available online at www.Jameco.com/Batteries


1581775


1581791

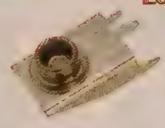

1581505


1582364


1581468


1582524


1581476


1581521

LOWER PRICES


1582102

KEYSTONE Coin Cell Battery Retainers

Part No.	Prod. No.	Description	1	10	100
1581775	3000♻	12mm single, SMT, for 1216/1220/1225	$.28	$.254	$.228
1581783	3002♻	20mm single, SMT, for 2016/2020/2025/2032	.34	.297	.248
1581791	3003♻	20mm single, PC mount, for 2016/2020/2025/2032	.37	.317	.277

KEYSTONE Coin Cell Battery Holders

Part No.	Prod. No.	Description	1	10	100
1581505	500♻	12mm single, PC mount, for 1216/1220/1225	$.80	$.74	$.71
1581610	1060♻	20mm low profile, single, SMT, for 2032	1.30	1.25	1.11
1581628	1061♻	20mm single, SMT, for 2016/2020/2025/2032	1.45	1.32	1.19
1581636	1065♻	20mm compact, vertical, single, PC mount	1.45	1.43	1.24
1581644	1066♻	20mm single, SMT, for 2025/2032	1.14	1.00	.91
1581652	1067♻	20mm single, SMT, for 2025/2032	1.25	1.14	.93
1581661	1071♻	23mm single, SMT, for 2320/2325/2330	1.55	1.40	1.24
1582364	1025-7♻	24mm single, SMT, for 2430/2477	1.65	1.56	.97

KEYSTONE Battery Holders

Part No.	Prod. No.	Description	1	10	100
1581468	92♻	Single snap-in clip, PC mount A & AA	$.22	$.198	$.142
1581759	1294♻	Plastic single cell, PC mount, 9V	1.19	1.12	.99
1581767	2103♻	Steel single cell, PC mount, 1/2 AA	1.89	1.62	1.47
1582524	2105♻	Steel single cell, PC mount, 1/2 A	1.43	1.38	1.33

KEYSTONE Battery Contacts

✳ Minimum order 10 pieces

Part No.	Prod. No.	Description	1	10	100
1581476	204♻	Snap-on, leaf, for AAA, AAAA, N	$.24	$.231	$.158
1581484	211♻	Spring contact, for A, AA	✳	.069	.059
1581521	593♻	Horizontal "on-board", male, PC mount, 9V	.34	.324	.29
1581548	635♻	Horizontal "off-board", male, PC mount, 9V	.29	.235	.198
1582102	5201♻	Negative spring, solder tab, for A, AA	✳	.143	.125

JAMECO ReliaPro

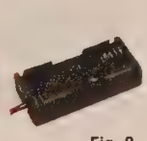
Battery Holders

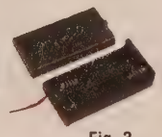
JAMECO EXCLUSIVE

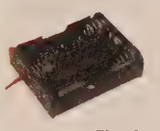
Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

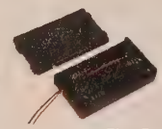
Part No.	Cross Ref. No.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071	BH-311-2A⊕	1	1-AA	Wires	Single		$.75	$.68	$.54	$.41
216081	BH-321-2A♻	2	2-AA	Wires	Single		.74	.66	.53	.39
216099	BH-321-4A♻	2	2-AA	Wires	Single	With mounting tabs	.87	.77	.56	.425
216102	SBH-321-2A♻	3	2-AA	Wires	Single	With cover, no switch	.65	.59	.47	.35
216119	SBH-321-1AS⊕	3	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216136	BH-331-A♻	4	3-AA	Wires	Single		.82	.63	.48	.36
216144	SBH-331-AS♻	5	3-AA	Wires	Single	With cover and switch	.81	.74	.70	.53
216151	BH-341-2A⊕✪	6	4-AA	Wires	Single		.99	.84	.77	.45
105858	§♻	7	4-AA	Wires	Single	Wires with connector	.81	.71	.49	.43
216179	BH-343-1A♻	8	4-AA	Wires	Dual		.75	.61	.518	.386
216187	SBH-341-1AS♻	9	4-AA	Wires	Single	With cover and switch	.89	.81	.75	.56
216223	BH-364-A⊕	10	6-AA	Wires	Single		.85	.71	.65	.55
216232	BH-363-B♻	11	6-AA	Snaps	Dual		.93	.79	.76	.57
216240	BH-383-A⊕	12	8-AA	Wires	Dual		1.15	1.04	.83	.63
216258	BH-382-B⊕✪	13	8-AA	Snaps	Dual		1.19	.99	.89	.85
216267	BH-383-B♻	12	8-AA	Snaps	Dual		1.15	.94	.88	.66
216283	BH-421-1A♻	2	2-AAA	Wires	Single		.57	.49	.43	.32
216339	SBH-441-AS♻	9	4-AAA	Wires	Single	With cover and switch	1.55	1.40	1.12	.84
216362	BH-242-1A⊕	14	4-C	Wires	Single		1.39	1.29	1.09	.99
216371	BH-111-1A⊕	1	1-D	Wires	Single		.69	.62	.496	.375
216389	BH-121-1A⊕✪	2	2-D	Wires	Single		1.19	1.07	.86	.65
216401	BH-142-A♻	14	4-D	Wires	Single		1.10	.99	.79	.59
216419	BH-143-1A♻	6	4-D	Wires	Single		1.75	1.58	1.47	1.10
216427	BH-9V-A♻	15	1-9V	Wires	Single		.71	.65	.63	.473
38543	2S2325⊕	16	1-CR2354 or 2-CR2325	PC Mount	Coin cell		.96	.85	.54	.46
355434	17002-00603⊕	17	1-CR2032	PC Mount	Coin cell		.72	.65	.546	.49
Great Prices on Special Buys ✳										
236996	103	16	1-CR2032	PC Mount	Coin cell		$1.29	$1.23	$1.09	$.81

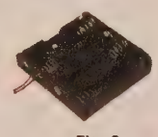

Fig. 1

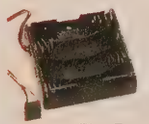

Fig. 2

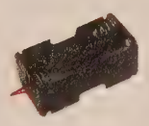

Fig. 3

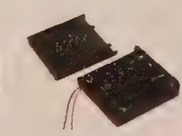

Fig. 4

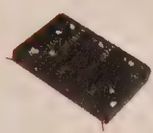

Fig. 5

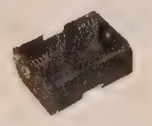

Fig. 6

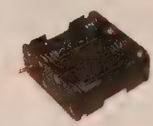

Fig. 7


Fig. 8


Fig. 9


Fig. 10


Fig. 11


Fig. 12

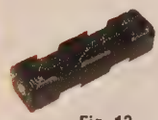

Fig. 13


Fig. 14


Fig. 15


Fig. 16


Fig. 17

§ Battery holder used in many personal computers ✪ Blue Part No. = Limited Quantity Available ✳ Manufacturer may vary

"9-Volt" Battery Snaps and Clips

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225"
- Female inner dia. = 0.215"


Fig. 1


Fig. 2


Fig. 3


Fig. 4

Part No.	Fig.	Description	Dimensions (in.) L	W	H	Pricing 1	10	100	1000
11280	1	3", 26 AWG, 6 prong battery snap ♻	1.0	.50	–	$.30	$.218	$.182	$.168
105794	2	Battery holder clip ♻	.63	.71	1.2	.28	.23	.16	.14
109154	3	6", 26 AWG, 6 prong battery snap ♻	1.0	.50	–	.23	.19	.173	.138
101470	3	10", 26 AWG, 6 prong battery snap ♻	1.0	.50	–	.35	.30	.252	.168
216452	4	6", 26 AWG, 6 prong battery snap ♻	1.0	.50	–	.34	.30	.20	.18

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty

TYSONIC

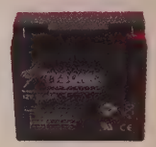

264014


264031


264049


264057


264065


264073

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference: Panasonic	Cross Reference: YUASA	Cross Reference: Eagle Picher	Cross Reference: Tempest	Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing: 1	Pricing: 10
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	$10.45	$7.84
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	16.49	15.28
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	16.15	14.72
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	18.35	16.37
318924	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	18.45	17.57
264057	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	18.15	16.21
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	37.05	34.57
264073	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	38.59	34.43
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut & bolt	7.6 x 5.1 x 6.3	27.6	70.39	63.00

Eveready® Energizer® Alkaline Batteries

198731





198707



198715



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications

Part No.	Size	1	10
198731	9-volt	$1.89	$1.81

- Priced per battery. Sold in multiples of 4.

Part No.	Size	4	40	100
198707	AA	$.66	$.59	$.53
198715	AAA	.49	.46	.44

Long-Lasting Rechargeable NiMH Batteries

Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCd batteries, so they're ideal for power-hungry devices like digital cameras and camcorders.

- Batteries sold individually

DANTONA


231095


231087


231124



231108

Part No.	Description	1	8	24
231095	AAA, 600mAh	$4.39	$4.04	$3.69
231087	AA, 1600mAh	3.99	3.72	3.54
231124	D, 9000mAh	16.59	15.81	15.06
231108	"9V", 150mAh	10.15	9.64	9.18

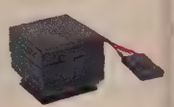
If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

Silver Oxide, Zinc Chloride & Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.


Fig. 1


Fig. 2


Fig. 3

Silver Oxide

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
140783	357	1	Button	1.55	1600	0.454"Dia.	$1.75	$1.49	$1.25

Zinc Chloride

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
151095	GF6F22	2	9V	9	300	1.7"L x 1.0"W x 0.67"Dia.	$1.25	$.99	$.79

Alkaline

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
150965	Rayovac 840	3	—	4.5	600	1.14"L x 0.73"W x 0.96"H	$9.95	$8.99	$8.06
198791	MN1604	2	9V	9	500	1.7"L x 1.0"W x 0.67"H	2.85	2.55	2.29

Automatic Battery Chargers


673416

- Safely charge and maintain lead acid batteries without supervision
- High frequency MOSFET switching design • Safe for gel cell batteries
- Multi-stage charging circuit prevents batteries from overcharging
- Extends battery life • Input voltage: 98 to 132VAC @ 50/60Hz • Output banks: 3
- Analog amp meter • Short circuit, overload, and reverse polarity protection

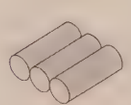
Part No.	Product No.	Output Volt. DC @ Current	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
673416	SEC-1215A	13.5V @ 15A	8.5 x 8.4 x 3.3	4.8	$146.05	$138.72	$131.78
673432	SEC-2415A	27V @ 15A	10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49

JAMECO ReliaPro

Rechargeable Battery Packs

JAMECO EXCLUSIVE

- AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm)
- SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm)


Fig. 1

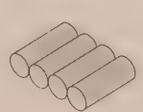

Fig. 2


Fig. 3

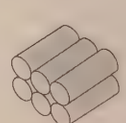

Fig. 4


Fig. 5

Part No.	Fig.	Volt	Size	Type	mAh	Connection	1	10	25
299090	1	3.6	AA	NiCd	700	Lead wire	$8.45	$7.62	$6.77
298345	1	3.6	AA	NiCd	1000	Solder tab	8.45	7.62	6.77
299241	1	3.6	AA	NiMH	1800	Lead wire	12.75	11.65	10.33
299250	2	4.8	AA	NiMH	1800	Lead wire	16.69	15.92	15.18
298652	2	4.8	SC	NiCd	2200	Solder tab	13.89	12.49	11.39
298687	3	4.8	SC	NiCd	2200	Solder tab	13.85	12.45	11.38
299305	4	7.2	AA	NiMH	1800	Lead wire	22.09	20.01	18.11
299461	5	9.6	SC	NiCd	2200	Lead wire	28.45	25.68	23.33

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Additional Batteries are available online at www.Jameco.com/Batteries

Lithium, Lithium Ion, NiCd and NiMH Batteries

Save 10% or more on most batteries!

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.


Fig. 1

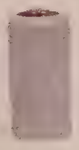

Fig. 2


Fig. 3


Fig. 4


Fig. 5

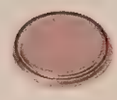

Fig. 6


Fig. 7


Fig. 8


Fig. 9


Fig. 10


Fig. 11


Fig. 12


Fig. 13


Fig. 14


Fig. 15


Fig. 16


Fig. 17

Lithium & Lithium Ion

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
618011	CR1/3N	1	—	3	160	Photocell	0.43"H x 0.46"Dia.	$2.65	$2.50	$1.88
240258	CR123A	2	—	3	1300	Photo/computer	1.36"L x 0.65"Dia.	2.85	2.56	2.42
33371	TL5101P	3	1/2AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	5.79	5.27	4.45
33398	TL5104P	4	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	6.25	5.89	5.53
146114	TL2100S	5	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.29	5.65
11789	CR2325	6	Coin cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Thick	1.65	1.47	1.25
14162	CR2032	—	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.25	1.12	.94
1585451	DL2032	6	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.15	1.12	1.09
689071	DL2450	6	Coin cell	3	600	Clock/memory/watch	0.95"Dia. x 0.18"Thick	2.85	2.52	1.89
126754	TL5101S	7	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	4.75	4.45	4.17
240266	ER14250	8	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	3.99	3.89	3.81
263898	ER14250	9	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.65	4.37	3.94
240303	ER14505	10	AA	3.6	2400	Consumer tip	2.00"L x 0.55"Dia.	5.45	5.04	4.90
240160	ER26500	11	C	3.6	8500	Consumer tip	2.00"L x 1.02"Dia.	11.95	11.50	11.05
240151	ER34615	12	D	3.6	16,500	Consumer tip	2.40"L x 1.34"Dia.	15.05	14.49	13.95

NiCd – Rechargeable

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261657	AA-700-CT	13	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	$1.59	$1.45	$1.19
244515	AA-1000-CT	13	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.65	2.43	2.33
126720	351FT	14	—	3.6	60	2-lead (pin), barrel	0.72"L x 0.61"Dia.	4.49	4.05	3.65
119116	3/V60R	14	—	3.6	60	3-lead (pin), barrel	0.72"L x 0.61"Dia.	3.35	3.29	3.22
101653	NA101-1	15	—	3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

NiMH – Rechargeable

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244822	AA-1800-CT	16	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	$2.69	$2.39	$2.26
244620	9V-200	17	9V	9	200	Snaps	1.94"L x 0.65"Dia.	9.35	8.31	7.47

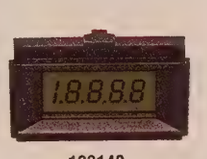
Panel Meters

0.6" High 3½ & 4½-Digit LCD Digital Panel Meters


108388


175951


146835


123140

- Input ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, pg 168)
- Input impedance: >100MΩ
- Automatic polarity indication
- Size: 2.7"W x 1.7"H

146835: Backlit display **Includes:** Bezel

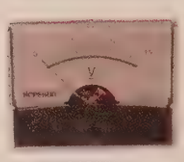
Part No.	Cross Ref. No.	Digits	1	10	25
108388	PM-428	3½	$14.39	$13.27	$12.16
175951	PM-128	3½	12.95	11.95	10.95
146835	PM-188BL	3½	19.99	18.99	17.99
123140	PM-328	4½	30.99	27.69	24.96

velleman Analog Panel Meters

- Includes mounting hardware
- Size: **A:** 2.4"W x 1.8"H x 1.3"D; **B:** 2.8"W x 2.4"H x 1.4"D

316507: Includes current shunt

Part No.	Product No.	Range	Size	1	5
316603	AVM6015	0 – 15VDC	A	$9.99	$9.49
316671	AVM7015	0 – 15VDC	B	9.99	9.49
316638	AVM6030	0 – 30VDC	A	9.99	9.49
316654	AVM7030	0 – 30VDC	B	9.99	9.49
316718	AVM60150	0 – 150VAC	A	9.99	9.49
316785	AVM60300	0 – 300VAC	A	9.99	9.49
315301	AIM60005	0 – 50µA	A	9.99	9.49
316523	AIM6050	0 – 50mA	A	9.99	9.49
316486	AIM60100	0 – 100mA	A	9.99	9.49
316558	AIM60500	0 – 500mA	A	9.99	9.49
316566	AIM60500	0 – 5A	A	9.99	9.49
316582	AIM705000	0 – 5A	B	9.99	9.49
316494	AIM6010A	0 – 10A	A	10.99	10.49
316507	AIM6030A	0 – 30A	A	12.99	12.49


316603


316523

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Serial & Parallel LCD Displays

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Scott Edwards Electronics, Inc. — Serial LCD Displays

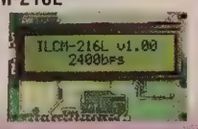
• For detailed specification sheets, please visit www.Jameco.com. • One year warranty

Matrix Orbital GLK12232-25-SM



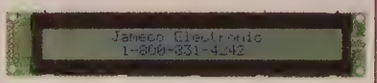
281391 *(serial)*

Scott Edwards ILM-216L



150990 *(serial)*

Ocular OM4021-WGS-01



277325 *(parallel)*

Hantronix HDM64GS12L-4-N31S



658953 *(parallel)*

Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing 1	10	25
150990	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V @ 5mA	Y	1,2,5	3.2 x 2.0 x 0.5	2.8 x 1.0	$48.95	$44.09	$39.99
133129	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V-5.5V @ 3mA	N	1,2,11	3.1 x 1.4 x 0.7	2.8 x 1.0	59.95	53.99	48.99
174166	Matrix Orbital	LK162-12 ⊕	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	49.59	48.99	48.49
693708	Matrix Orbital	LK162-12-GW ♻	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,12,13	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.59
1536878	Matrix Orbital	LK162-12-R ♻	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
281332	Matrix Orbital	LK162-12-WB ♻	16 x 2	1200 - 19.200	5.0V @ 9mA	Y	1,7,13,15	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
693978	Matrix Orbital	LK202-25-GW ♻	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,12	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
281341	Matrix Orbital	LK202-25-WB ♻	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10	4.6 x 1.5 x 1.1	3.2 x 0.7	58.99	56.99	53.49
150957	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V @ 10mA	Y	1,3,4,6	3.9 x 2.4 x 0.7	3.0 x 1.0	59.95	59.45	59.00
157323	Matrix Orbital	LK204-25 ⊕	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Y	1,3,4,6	3.7 x 2.4 x 1.1	3.0 x 1.0	68.99	66.99	65.59
694170	Matrix Orbital	LK204-25-IY ♻	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,14	3.9 x 2.4 x 1.2	3.0 x 1.0	68.99	66.99	65.59
694188	Matrix Orbital	LK204-25-WB ♻	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,15	3.9 x 2.4 x 1.2	3.0 x 1.0	68.99	66.99	65.59
281391	Matrix Orbital	GLK12232-25-SM ⊕	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 250mA	Y	1,8	3.4 x 1.4 x 0.5	2.4 x 0.7	68.99	67.99	65.99
694356	Matrix Orbital	GLK12232-25-SM-WB ♻	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 22mA	Y	1,8,16	3.4 x 1.4 x 0.5	2.4 x 0.7	68.99	67.99	66.09
281404	Matrix Orbital	GLK12232-25-WBL ⊕	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 20mA	Y	1,8	3.9 x 2.4 x 0.4	3.3 x 1.4	74.99	73.99	71.19
694364	Matrix Orbital	GLK12232-25-WBL-WB ♻	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 18mA	Y	1,8,16	3.9 x 2.4 x 0.4	2.7 x 0.8	77.99	75.99	73.39
174182	Matrix Orbital	GLC24064 ⊕	240 x 64 w/ graphics	1200 - 19,200	5.0V @ 31mA	Y	1,3,6	7.1 x 2.6 x 0.7	5.2 x 1.5	167.79	152.72	139.72
694372	Matrix Orbital	GLK24064-25-GW ♻	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	Y	1,9,12	7.1 x 2.6 x 0.7	5.0 x 1.3	168.99	160.99	153.99
694381	Matrix Orbital	GLK24064-25-WB ♻	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	Y	1,9,15	7.1 x 2.6 x 0.7	5.0 x 1.3	168.99	160.99	153.99

*1. For a power supply, Jameco recommends P/N 164101, pg 160
2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)
3. Manual included
4. Connect 16 modules using the same two wire interface
5. EEPROM stores text font, settings, and text screen
6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
7. Connect 127 modules on the same 2-wire interface
8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface
9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface
10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs
11. LCD Serial Backpack® accepts RS232, CMOS or TTL signal
12. Grey text/white background
13. Built-In font provision for up to 8-user define characters, software controlled contrast and brightness, use of up to 12-key with 10-key buffer, horizontal or vertical bar graphs
14. Inverse yellow
15. White text/blue background
16. Color of illumination: white/ice blue

Parallel LCD Displays

• For detailed specification sheets, please visit www.Jameco.com. • 90-day Jameco warranty

Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes†	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing 1	10	25
644025	Epson	EA-D16015AR	16 x 1	5 x 7	8-bit	5.0V @ 1.0mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	$7.25	$6.68	$5.01
171716	Ampire♻	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Y	2, 3	3.4 x 1.2 x 0.5	2.5 x 0.7	14.15	13.49	12.78
658881	Hantronix	HDM716216H-4-H0AF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	3	4.8 x 1.7 x 0.4	3.9 x 0.9	11.95	10.49	7.87
658890	Hantronix	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	3	3.3 x 1.7 x 0.4	2.4 x 0.6	11.95	10.49	7.87
618003	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	10.95	9.95	7.49
658988	Hantronix	HDM716216L-7-8C0	16 x 2	5 x 7	8-bit	5.0V @ 2.0mA	Y	3	4.8 x 1.7 x 0.6	3.9 x 0.9	19.85	16.59	12.45
365982	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Y	—	3.3 x 1.2 x 0.5	2.4 x 0.63	12.69	10.79	9.45
1585979	Tinsharp	KEST1602A-08	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	Y	—	3.1 x 1.4 x 0.4	2.5 x 0.4	13.95	13.49	11.95
210761	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	N	1, 3	3.4 x 2.4 x 0.3	2.4 x 1.0	22.95	19.95	18.69
658970	Hantronix	HDM20216L-1-G30F	20 x 2	5 x 7	8-bit	5.0V @ 2.4mA	Y	3	4.6 x 1.5 x 0.6	3.4 x 0.7	18.95	16.95	14.49
171724	Ampire♻	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Y	2, 3	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
320101	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	3	4.6 x 1.4 x 0.4	3.7 x 0.7	15.59	13.25	9.94
320039	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	3	7.2 x 1.2 x 0.3	6.0 x 0.6	21.69	20.17	16.84
277325	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V @ 2.5mA	Y	3	7.2 x 1.3 x 0.6	6.0 x 0.6	22.45	19.13	14.34
658937	Hantronix	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Y	3	7.2 x 1.3 x 0.6	6.1 x 0.6	24.95	22.45	19.49
652332	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	N	—	7.5 x 2.1 x 0.4	5.5 x 0.9	29.95	26.95	20.21
658953	Hantronix	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Y	4	3.0 x 2.1 x 0.4	2.4 x 1.3	27.95	24.95	21.49

†1. Control LSI HD44780 & column driver MSM5259 or equivalents; 2. Controller KS0066U or equivalent; 3. Recommend power supply P/N 164101, pg 160; 4. Dot Graphic LCD display

Commercial Customers

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♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Computer Accessories are available online at www.Jameco.com/Computer

Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
311204	Intel Celeron® processor♣	800	FCPGA-370	$42.09	$37.88
150501	Intel Pentium MMX® proc. ♣	233	376/PGA	69.95	62.95

♣ Pull = Extra Savings

Legacy Memory Modules

Part No.	Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
148451	JEED07264	64MB	60ns SIMM EDO	16M x 32	72	$30.95	$28.95
41751	421000A9B-70	1MB	70ns SIMM	1M x 9	30	4.95	3.95

CPU Heat Sinks and Fans**

Part No.	Description	Size (H" x W" x D")	1	10
181279	Heat sink w/ fan for socket 7 (ATX) ⊕	2.12 x 2.05 x 1.67	$8.49	$7.65
190545	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	13.55	12.19
645482	Heat sink w/ fan for socket 370	2.04 x 2.04 x 1.06	10.95	9.49
319185	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59	8.05	6.05
129226	Heat sink for 486 CPU – adhesive back	1.70 x 1.63 x 0.36	2.95	2.65
684748	Heat sink w/ fan for socket 7 (AT/ATX)	1.00 x 2.60 x 2.30	8.99	6.74

** See website for photos

CD-ROM Audio Cable

✪ Blue P/N = Limited Qty Available

Part No.	Connection from Sound Blaster to	Length	1	10	50
168612	Universal ⊕✪	18"	$4.95	$4.46	$3.35



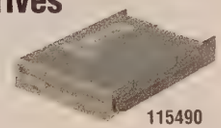
Legacy 3.5" Hard Disk Drives*

Part No.	Capacity	Description	Warranty	1	10
151036	3.2GB♣	EIDE/Ultra DMA33	1 year	$39.95	$29.96
151044	4.3GB♣	EIDE/Ultra DMA33	1 year	49.95	45.95
146333	2.5GB♣	EIDE/FAST ATA-2	1 year	33.29	29.95
124978	1.27GB♣	IDE	1 year	30.25	27.22

* Manufacturers may vary & capacity may exceed specification ♣ Pull = Extra Savings

1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H • Weight: 1.4 lbs.



115490

Part No.	Product No.	Mfr.	Color	1	10
115490	FD235	TEAC	Beige	$23.95	$21.54
249367	MPF920-Z	Sony	Beige	17.29	15.99
661108	D359M3D	Mitsumi	Black	20.95	15.71

Mounting Kit

Designed to mount most 3.5" media devices into standard 5.25" half height bays.
- 3.5" hard drive mount kit (short)



Part No.	Cross Ref.	1	10	25
180857	HDB35 ⊕	$3.69	$3.25	$2.43

IntelliMover Kit

Quantity Save

The IntelliMover kit lets you quickly and easily move email, music, photos, files, folders, settings and more from your old PC to a new PC. You can select file types, and settings that you want to move, so you do not end up cluttering your new PC with unwanted files.



- Transfers data and settings from one product version to another (e.g. Microsoft® Word 97 to Word XP)
- Transfers data and settings across operating systems
- Integrates intelligently on your new PC; there's no over writing of drivers or data files
- "Drag and Drop" individual files and folders between two PC's with the IntelliMover's file transfer utilityand either data transfer cable

Part No.	Description	1	10
689910	IntelliMover kit with CD	$24.95	$18.71

USB Thumb Drives

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.



687682

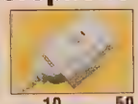
- 10 year data retention • Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at www.Jameco.com

sale

Part No.	Description	Price
687682	128MB (PNY)	$5.95
687738	128MB	4.95

Hands-Free Condenser Microphone

- Cord length: 8' • One-year warranty
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H



Part No.	Description	1	10	50
135248	Microphone	$4.49	$3.99	$3.65

10" B&W Security Monitor w/ Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for volume and power switch
- BNC jacks for audio/video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12.0"D x 9.1"H • Weight: 15 lbs.



✪ Blue Part No. = Limited Quantity Available

Includes: Manual

Part No.	Description	1	10
253067	10" B/W monitor✪	$132.65	$119.39

5.6" Color TFT Monitor

NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 1.2"D x 4.8"H
- Weight: 2.6 lbs.



Quantity Save

Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702	5.6" TFT color monitor	$279.95	$209.96

XBOB-NC Video Text Module



DECADE

XBOB integrates Decade's third-generation OSD technology into a convenient plug & play format. The command set is nearly identical to that of the popular BOB-3 module and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.

- Higher display density; 40x17 characters (680 max.)
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control

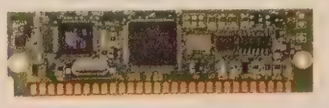
Part No.	Description	1	10
283768	XBOB video text module	$189.95	$179.99
100845	9VDC power supply	4.59	4.37

BOB-4 Video Text Module

LOWER PRICES

- Simple hookup (DC, serial data, video I/O)
- High display density; up to 480x240 (NTSC) or 480x288 (PAL)
- Industry-standard ANSI control protocol (ECMA-048)
- Automatic video mode control (local/genlock)
- Async, Synchronous, and SPI host communication options
- Software-controlled digital outputs (5)
- Customer-configurable video standards (NTSC/PAL)
- Stand-alone operation for simple source ID, target reticle, etc.
- Prints plain ASCII text in default configuration
- Vector graphics drawing commands
- Consumes only 1/2W at +5VDC
- Extended production lifetime; no OSD chips!

DECADE



Part No.	Description	1	10
1537476	BOB-4 video text module	$93.95	$88.95

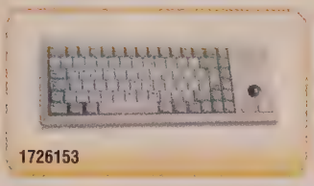
RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Color Code Legend: New Sale Lower$ QtySave

Keyboards

Color Code Legend: New Sale Lower$ QtySave

Additional Keyboards and Mice are available online at www.Jameco.com/Computer


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311183



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211756


639550


173649


681230


265375


1537109

Part No.	Mfr.	Product No.	Interface	Description	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
1726153	Cherry	G84-4400PPBUS♠	PS/2	83-key tactile keyboard w/ trackball	14.6 x 5.5 x 0.8	1.3	$184.89	$179.23	$173.57
311183	OKI	HMB-631PUS	PS/2	84-key soft touch mini keyboard w/ track point mouse	12.6 x 6.2 x 1.0	5.0	40.95	34.81	26.11
211756	—	WK-540	5-pin DIN	88/89-key soft touch keyboard w/ touchpad, Windows® compatible	11.4 x 8.5 x 1.2	2.3	39.95	33.95	25.46
639550	IONE	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)	15.9 x 6.5 x 1.3	2.1	43.95	38.95	35.95
173649	—	SUN 3201256-1	PS/2	104-key tactile keyboard w/ 12 function keys, separate arrow & numeric keys	18.2 x 7.0 x 1.5	2.7	12.95	11.01	8.26
681230	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/built-in speakers	18.5 x 10.0 x 3.2	2.5	22.95	19.51	14.63
265375	ITRON	Scorpius-22RB	Serial	22-key serial tactile keypad w/ 2-key rollover and auto repeat function Includes manual and drivers	6.2 x 4.2 x 1.3	0.8	39.95	35.95	32.49
1537109	Panova	25551	USB	18-key USB tactile keypad	4.3 x 3.0 x 0.5	0.2	29.95	27.95	24.95

Mice



685943



687746


305082



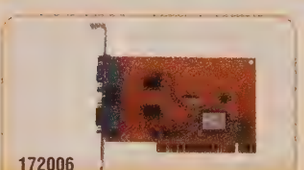
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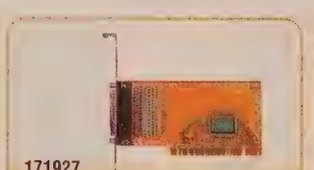
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Part No.	Manufacturer	Product No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
685943	—	OW7751	Mech. Ball	USB	3-button with scroll; black	4.8 x 2.5 x 1.5	$10.95	$9.95	$7.46
687746	Cherry	M-5000	Optical	USB-PS/2	3-button with scroll with PS/2 to USB adapter; black	4.6 x 2.6 x 1.5	20.85	18.65	13.99
305082	IONE	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter	5.6 x 4.7 x 1.9	29.95	26.95	24.25
283223	—	—	Mech. ball	DB9 female	3-button serial	4.3 x 2.6 x 1.6	6.15	5.23	3.92
1586103	A4TECH	MOP-57	Optical	USB	3-button with scroll; silver	3.5 x 1.8 x 1.3	13.95	12.49	10.95

Interface Cards

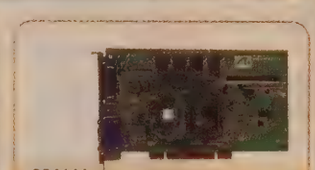

172006


344903


171927



308769


364111

Serial Interface Cards

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
171556	—	99378♻	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/1/15 and address jumper configurable, dual 16C550 DB9 male.	$32.85	$28.75
172006	—	99467♻	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.	48.45	43.65
171548	—	99468♻	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550.	129.95	116.95
171660	—	99469⊕	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	179.95	161.00
344903	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.49	26.15

Parallel Interface Card

171927	—	4008A♻	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	$39.95	$35.95

Network Interface Card

♠ Pull = Extra Savings

308769	3-COM	3C509B-TPO♠	ISA	1	RJ-45	IEEE 802.3i (10Base-T) and IEEE 802.3 (10Mbps) compliant.	$20.45	$17.64

Video Graphics Card

364111	ATI	109-54100-00	PCI	—	HDDB15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT4.0 compatible.	$29.99	$28.49

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional PC Power Supplies are available online at www.Jameco.com/Computer

KVM Switchbox

Part No.	Cross Ref. No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
79177	40H1-07402	2-way keyboard / monitor switchbox (2 users to 1 PC)	HDDB15 female / 6-pin DIN female	6.0 x 4.5 x 2.6	1.3	$20.99	$18.89

Serial-to-PC Switchbox

79126	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	$10.45	$9.42



PS/2 Cable

- For use with switchbox P/N 149391, see web

Part No.	Description	1	10
204062	6' PS/2 cable	$16.95	$15.29



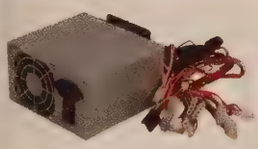
More Extension Cables, Adapter Cables on page 82-83





Power Supplies

150 to 500-Watt PC Power Supplies


308814


1810144


1810136


1537310


1536915


196189


1537424

ATX Power Supplies

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing 1	10	25
422094	Seasonic	SS-500HT Active PFC	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	$125.05	$115.00	$108.80
308814	Powmax	LP6100D*	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
1810144	LC Power	LC350U*	350	+3.3/16; +5/30; +12/15 -5/0.5; -12/0.8; +5VSB/2	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/TUV/CE	5.9 x 5.6 x 3.4	2.3	27.99	26.95	23.49
427928	Seasonic	SS-300SFD Active PFC℞	300	+3.3/20,+5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	53.95	51.19	48.65
673344	Seasonic	SS-300HS Active PFC	300	+3.3/20,+5/20, +12/8, +12/14, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	43.75	39.32	36.90
1810136	FSP	FSP300-601U*	300	+3.3/20; +5/25; +12/16; -5/0.3; -12/0.8; 5VSB/2	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 156)	UL/CSA/VDE/CE	8.3 x 4.0 x 1.6	3.3	49.95	44.95	38.50
1537310	FSP	FSP-300-60ATV*♠	300	+3.3/28, +5/30, +12/15, +5VSB/2, -5/0.3, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CSA/TUV	6.0 x 5.6 x 3.5	4.0	26.95	23.95	19.95
1536915	Potrans	PP-253XA*	250	+3.3/14, +5/25, +12/8, +5VSB/2 -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CSA/TUV/CE	6.0 x 5.6 x 3.4	3.5	39.95	35.95	32.35
319994	3Y Power Technology	AP-1250-1112	250	+3.3/20, +5/25, +12/12 -5VSB/3, -5/5; -12/0.5	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CSA/TUV/CE	7.5 x 4.0 x 1.6	2.9	33.25	31.65	23.75
421657	Powertronic	PK-6180DT3	200	+3.3/14, +5/22, +12/6 +5VSB/0.1, -5/0.5, -12/0.8	115/230 @ 47-63 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CUL/TUV	6.0 x 5.6 x 3.5	3.3	17.95	16.15	13.75
196189	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	35.65	30.30	22.73

AT Power Supplies

692414	Autec	PCB-5300-2000	326	+5/30, +12/14, -12/0.5, -5/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CSA/TUV	6.0 x 5.6 x 3.4	3.0	$29.95	$26.95	$23.95
1537424	FSP	SPI-250G*	250	+5/26, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 156)	UL/CSA/TUV/CE	6.0 x 5.6 x 3.4	3.1	34.95	29.95	24.95

* See photo above ♠ Pull = Extra Savings

Surge Protectors

- Up to $50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4-outlet protectors: 6' cord; 8-outlet protectors: 12' cord
- UL 1449 and 1283 listed
- Lifetime warranty


19001

isobar®

MADE IN USA

ULTIMATE LIFETIME INSURANCE

Isobar Premium Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
18981	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	$49.95	$44.95

Isobar Ultra Premium Surge Protector

19001	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	$69.95	$63.74

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com.

Standard Surge Protector

Economical and effective spike and noise suppression with diagnostic LEDs.

- $75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes • Weight: 1.6 lbs.



Part No.	Product No.	Joules	1	10
124337	Super 7	2350	$19.95	$17.95

6-Outlet Surge Protectors


20175


216485

20175:
- Metal power strip • 3-prong, 4' power cord
- Max. spike current: 4500A, 50 joules
- Size: 12.3"L x 2.4"W x 1.3"H • Weight: 1.5 lbs.

216485: • Heavy-duty power cord (14AWG x 3)
- Max. spike current: 4500A • Clamping voltage: 400V
- Max. surge dissip.: 900 joules • Max. surge volt.: 6500V
- RESET/OFF switch with built-in 15A circuit breaker • Weight: 0.9 lbs

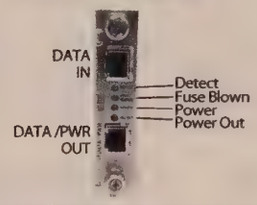
Part No.	Product No.	1	10	100
20175	51W1-13206	$11.69	$11.13	$10.59
216485	51W1-10206	6.95	6.25	5.59

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

BELDEN PowerSense™ Power-Over-Ethernet Mid Span Hub

PowerSense AX-8000 Series





- Individual power modules, hot swappable in the 19" rackmount ready chassis, use 1 per powered device
- Current limited for short circuit protection withpower isolation of 1kV between ports for safety
- User replaceable fuses for recovery from power surge or lightning damage, quickly repair any module • 4 diagnostic LEDs
- Removable US power cord with IEC plug
- Mix & match for compatibility with IEEE802.3af or legacy Cisco CDP power devices, 12V or 24V protocol
- Chassis complete with 10 standard power chassis modules

Part No.	Product No.	Description	1	5	10
700751	AX-8300HW♻✦	Double wide power & data mod., 12V protocol	$88.79	$84.43	$81.32

BELDEN Optimax Tool Kit



Conveniently packaged in a carrying case, this optimax tool kit includes tools, installation instructions and a training video in CD form required to terminate 900μm buffered optical fiber and jacketed optical fiber, install LC/SC or ST compatible mode and single mode connectors.

Includes: Installation tools, fiber cleaver, crimping tool, instruction manual, microscope, tweezers, alcohol wipes, marker, scissors, waste bottle, fiber stripper, cable stripper and training video

Part No.	Product No.	1	5	10
701302	AX100497♻ ✦	$987.75	$939.47	$891.19

✦ This product is a special order, non-cancelable, non-returnable and may take 1 week to ship.

USB 2.0 Docking Station

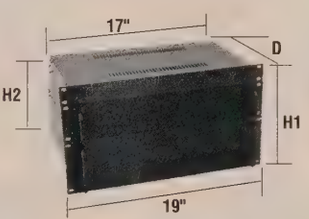


- Connects via USB-A port to your laptop
- Size: 4.8"W x 2.5"D x 1.0"H

System Requirements: PC with 75MHz min. Pentium® or equivalent; 16MB of RAM min., available USB-A port, Windows® 98 or later

Part No.	Product No.	1	5
527822	USB 2.0 dock	$22.95	$15.95

19" Rack Mount Enclosures



- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Front panel: 0.12" thick
- Black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813

Includes: Mounting screws

Part No.	Dimensions (In.) H1	H2	D	Wt. (lbs.)	Pricing 1	10
132813 ♻	1.73	1.25	9.75	6.2	$40.35	$30.26
132822 ♻	3.46	3.00	9.75	7.9	51.79	46.97
132840 ♻	3.46	2.88	11.75	9.1	53.95	48.59
132848 ♻	5.22	4.75	11.75	10.6	63.95	47.96
132856 ♻	5.22	4.75	13.50	11.8	75.05	67.92
132864 ♻	8.56	8.00	13.50	15.4	94.95	84.95

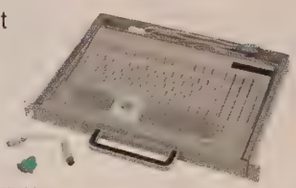
Cabinet Mounting Plate for 19" Cabinet



- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H

Part No.	Description	1	10
149500	Cabinet mount plate	$39.95	$35.95

19" Rack Mount Drawer with Keyboard and Trackball

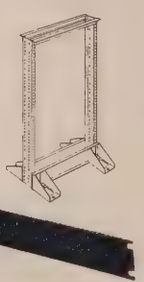


- Occupies a single unit (IU) rack space
- PS/2 connector for keyboard and trackball
- Weight: 18 lbs.
- Size: 19.0"W x 13.0"D x 1.75"H

Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644	Rack mount KB drawer⊕	$249.99	$234.99

Relay Rack & Rack Panels



Rack:
- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84.0"H
- Dimensional weight: 70 lbs.

19" Wide Panel:
- 10-gauge black steel

Rack screw:
- 10/32 screw; 5/8" phillips head (50 ea.)

Part No.	Description	Height	1	10
133751	Relay rack	84"	$159.95	$147.00
229489	Rack panel (2U)⊕	3.50"	10.95	10.35
229500	Rack panel (4U)	7.00"	14.85	14.23

We're Listening to Your Requests

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

Bidirectional Non-Buffered Serial-to-Parallel Converter



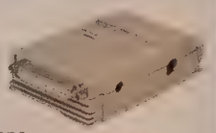
- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400bps
- Weight: 0.8 lbs. • Size: 4.0"L x 2.5"W x 1.0"H
- One-year warranty

Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935	Bi-converter	$59.95	$53.94	$47.88

ATEN Bidirectional Serial-to-Parallel Converter

115.2kbps, 512kB Buffer



- One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- DCE/DTE selectable • Stop bits: 1 or 2
- Size: 3.8"L x 2.4"W x 1.0"H • Weight: 0.8 lbs.
- One-year warranty

LOWER PRICES

Includes: 9VAC @ 200mA adapter

Part No.	Description	1	10
182983	Serial/parallel converter	$53.89	$40.74

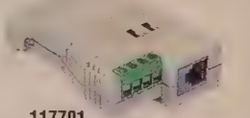
ATEN Short Haul Modem



- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)

Part No.	Description	1	10	25
116581	Short haul modem⊕	$29.95	$25.46	$19.10

ATEN RS-232 to RS-485/422 Bidirectional Converters



- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-232: DB25 female connector
- RS-485: terminal block and RJ11 connections
- Input: 110VAC • Weight: 0.9 lbs.
- One-year warranty

Now a European Version!

197931: Port powered (power adapter not included)
- Data rate: 100kbps

122956: Features RS-485SI; optical isolation: 2000V

Part No.	Description	1	10
117701	RS-232-485/422⊕	$59.69	$53.51
197931	RS-232-485/422⊕	69.95	52.45
122956	RS-232-485/422 OPT ISO⊕	124.79	93.59

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Security Products are available online at www.Jameco.com/Computer

SONY® Color CCD Camera

Sony Chipset



- 1/4" Sony super HAD CCD sensor
- NTSC system w/510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

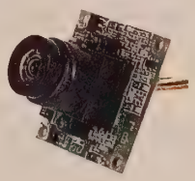
Requires: 12VDC @ 120mA power supply (recommend P/N 163993, pg 161)

Includes: Power/signal cable & mounting hardware

Part No.	Description	1	10
213436	Enclosed color camera	$188.95	$170.05

Black & White Camera with Lens

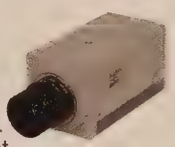
EIA Format



- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Power supply: 12VDC (recommend P/N 162996, pg 160)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB • Size: 1.3"L x 1.3"W x 1.2"H

Part No.	Description	1	10
171029	Camera board	$44.95	$40.45

Color Camera with 8mm Lens



- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- Scanning system: 2:1 interlace
- Electronic shutter: 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω • Vertical freq.: 60Hz
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable • S/N ratio: 52dB
- Auto-tracing white balance • 2X digital zoom
- Power requirements: 12VDC @ 150mA

Part No.	Description	1	10
395461	Color camera	$103.35	$93.89

Color Interline Camera

Water resistant with mounting bracket



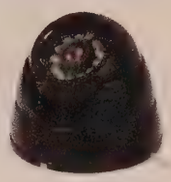
- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply

Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017	Color camera	$99.95	$89.95

Color Digital CCD IR Dome Camera

NTSC format



- Image sensor: inch interline transfer CCD
- Auto-electronic shutter
- Auto white balance
- Scanning system: 525 lines, 60 fields/sec

Part No.	Description	1	10
1581370	Dome camera	$117.65	$111.76

Color Digital CCD Dome Camera with 0.01 LUX Illumination

NTSC format

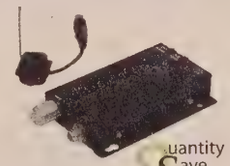


Provides color video surveillance in low light conditions thus eliminating the need for traditional IR illumination. It utilizes any available bit of light and maximizes its effectiveness, providing a viewable picture throughout the image area.

- Image sensor: 1/3" Sony CCD
- 420 line horizontal resolution

Part No.	Description	1	10
1581396	Dome camera w/ illumination	$220.55	$206.05

Mini Wireless Color Camera



This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150' (unobstructed) range and 9-volt battery power, you can now add video capability to a world of hobby applications.

Quantity Save

Part No.	Description	1	10
249025	Wireless color camera	$92.39	$69.29

DigiVue™ Digital Surveillance System



- Input signal: 4 video, 1 audio channel
- Watermark time & date stamp
- Display/record: 60 frames/sec.
- Enhanced MPEG4 format
- Adjustments: light, contrast, hue, saturation
- Record mode: event/continuous/schedule
- Resolution: 160 x 120 to 640 x 480
- Storage: HDD/VDRAM/CD-RW/DAT/MO/ZIP/RAID
- Supports real time WAN/LAN and internet monitoring via client software, internet explorer

Includes: CD-ROM and drivers

Minimum system requirements: Pentium® 4, 1.8GHz, 256MB RAM, 32MB AGP video card

Part No.	Product No	1	10
639568	EDV-XV425	$94.95	$85.46

www.Jameco.com

Our enhanced website offers thousands of additional products. Find products quickly and order them easily.

2.4GHz Wireless Audio/Video Transmitter



- Frequency range: 2413MHz to 2470MHz
- Impedance: 50Ω
- Output power: 1 Watt
- Video input: 1Vp-p
- Audio input: 2Vp-p

Includes: 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

179864:

- For use with 2.4GHz cameras, transmitters and receivers • Gain: 3dB; unidirectional

Part No.	Description	1	10
289852	Wireless audio/video tran.	$199.95	$179.95
179864	2.4GHz SMA RF antenna	13.65	10.24
179872	Wireless extension cable	10.99	9.89

4-Channel 2.4GHz Wireless Audio/Video Receiver & 10mW Transmitter



- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.

Receiver:

- Non-volatile memory protects system set-up from power loss
- Video loss detection & freeze channel
- Mute and alarm trigger port • Weight: 1.8 lbs.

Includes: RCA cable, 12VDC @ 500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858	4-channel transmitter	$94.45	$85.05
192866	4-channel receiver	124.95	112.95

DigiVue™ Complete Digital Video Recording Security System

EDV-XV425 Video Capture Card:



- 60fps per card
- Monitors multiple IP addresses
- Supports multiple card installations
- 4-ch video and 1-ch audio
- Supports real time WAN/LAN and internet monitoring

Includes: PCI video capture card, 2 outdoor color day/night cameras, 2 micro dome color cameras, video recording software w/ drivers, four 50' video/power cables and 4 power supplies for the camera

Part No.	Product No	1	10
639584	EDV-XV425 kit	$489.95	$449.99

Cable Assemblies



75Ω RG59/U BNC – BNC

Part No.	Length	1	10	50	100
262730	25 ft.	$9.95	$8.95	$8.05	$7.25
262748	50 ft.	17.05	15.35	12.28	9.21

75Ω BNC – BNC and Jack-to-Jack

Part No.	Length	1	10
1581353	25 ft.	$8.75	$7.88
1581388	50 ft.	24.49	22.04
1581409	100 ft.	28.59	25.71

For additional BNC Cables see page 113.

Sizes shown are for relative comparisons.

See www.Jameco.com for accuracy and complete specifications

Color Code Legend: New Sale Lower$ QtySave

Additional Digital Multimeters are available online at www.Jameco.com/Test

Mastech M300
- 2000 count
- 6 functions
- Extremely low cost



P/N 220812
$9.65

Velleman DVM850BL
- 2000 count
- 6 functions



P/N 355207
$16.75

Jameco JE110
- 2000 count
- 6 functions
- 100µV resolution

Quantity Save



P/N 119212
$19.95

BP-1562
- 2000 count
- 6 functions

JAMECO EXCLUSIVE



P/N 318781
$9.95

Mastech MAS830L
(220759)
- 2000 count
- 7 functions
- Continuity test

Mastech MAS838
(220741)
- 2000 count
- 8 functions
- Temperature



P/N 220759
$15.85

P/N 220741
$19.95

Basic Measurement Functions

Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)
220812	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—
355207	Velleman DVM850BL	2000	6	100µV	200m - 100	200 - 600	200µ - 10	—	200 - 2M	—	—
119212	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—
318781	BenchPro BP-1562	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—
220759	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—
220741	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—
220775	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—
645571	Velleman DVM890F	2000	11	100µV	200m - 1000	2 - 700	2m - 20	20m - 20	200 - 200M	2000p - 20µ	—
220767	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—
645626	Extech EX330*	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 10	.1µ - 10	.1 - 40M	.001n - 200µ	—
1581177	Extech EX430	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 20	.1µ - 20	.1 - 40M	.1n - 100µ	—
692502	Extech DM110	4000	10	100µV	0 - 500	0 - 500	0 - .40	0 - .40	400 - 40M	0 - 200µ	—
211650	Extech MN26T	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—
117373	BenchPro BP-1949	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—
137462	BenchPro BP-1737	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—
1581185	Extech MP510†	5000	7	10µV	50m - 1000	50m - 1000	500µ - 10	500µ - 10	50 - 50M	50n - 9999µ	—
1537328	Fluke 115†	6000	9	100µV	600m - 600	600m - 600	6 - 20	6 - 20	600 - 40M	1000n - 9999µ	—
1537336	Fluke 117*†	6000	9	100µV	600m - 600	600m - 600	6 - 20	6 - 20	600 - 40M	1000n - 9999µ	—
192655	Fluke 175	6000	12	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—
185535	Fluke 179†	6000	13	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—
222527	Wavetek/MM 37XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	4m - 40
318764	BenchPro BP-1415✪	20,000	8	10µV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20µ	—
1581214	Protek 6800	80,000	10	1µV	8 - 1000	80m - 750	80m - 10	80m - 10	80 - 80M	1n - 100µ	—

* with non-contact voltage detector (100-600VAC range) † with backlight ✪ Blue Part No. = Limited Quantity Available

Tools/Tools

Extech MN26T
- 4000 count
- 11 functions
- Autorange
- Temp./frequency



P/N 211650
$39.95

BP-1949
(117373)
- 4000 count
- 12 functions/RS-232
- Autorange
- Temp./frequency

JAMECO EXCLUSIVE

Quantity Save

BP-1737
(137462)
- 4000 count
- 12 functions/RS-232
- Autorange
- Temp./frequency
- True RMS



137462

P/N 117373
$89.95

P/N 137462
$135.99

Extech MP510
- 5000 count
- Backlit LCD/ auto power off



P/N 1581185
$149.95

Fluke 115
(1537328)
- 6000 count
- Backlit
- True RMS

LOWER PRICES

Fluke 117
(1537336)
- 6000 count
- Backlit
- True RMS
- Non-contact voltage



1537336

P/N 1537328
$163.05

P/N 1537336
$193.69

Additional Digital Multimeters are available online at www.Jameco.com/Test

Sizes shown are for relative comparisons.

MASTECH

Mastech MY64
- 2000 count
- 11 functions
- Temp./frequency



P/N 220775
$42.69

velleman

Velleman DVM890F
- 2000 count
- 11 functions

NEW



P/N 645571
$38.79

MASTECH

Mastech MY68
- 3260 count
- 12 functions
- Autorange
- Analog bargraph



P/N 220767
$49.49

EXTECH

Extech EX330*
(645626)
- 4000 count
- 9 functions
- Non-contact AC voltage detector

Best Seller

Extech EX430
(1581177)
- 4000 count
- True RMS
- Auto ranging



645626

P/N 645626
$55.95

P/N 1581177
$79.95

EXTECH

Extech DM110
- 4000 count
- 10 functions
- Autorange



P/N 692502
$29.99

	Test Functions						Special Functions							
Frequency Ranges (Hz)	Temperature Range °C	Temperature Range °F	Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing 1	Pricing 5
—	—	—	✔		✔						4.7 x 2.7 x 0.8	220812	$9.65	$7.24
—	—	—	✔		✔	✔					5.4 x 2.7 x 1.2	355207	16.75	15.92
—	—	—	✔			✔					4.8 x 2.6 x 1.0	119212	19.95	14.96
—	—	—	✔			✔					5.4 x 2.7 x 1.2	318781	9.95	9.45
—	—	—	✔		✔	✔					5.7 x 3.0 x 1.4	220759	15.85	14.99
—	-20 to 1000	—	✔		✔	✔					5.7 x 3.0 x 1.4	220741	19.95	15.96
2k - 20k	-20 to 1000	—	✔		✔	✔					7.4 x 3.6 x 1.3	220775	42.69	39.09
—	—	-58 to 1832	✔		✔	✔					6.7 x 3.5 x 1.5	645571	38.79	36.91
32.6k - 150k	—	—	✔		✔	✔	✔	✔			7.4 x 3.6 x 1.3	220767	49.49	44.55
.001 - 10M	-50 to 1000	-58 to 1832	✔		✔		✔				5.7 x 2.9 x 1.6	645626	55.95	52.95
.001 - 10	-20 to 750	-4 to 1382	✔		✔		✔			✔	7.4 x 3.2 x 2.0	1581177	79.95	77.95
9 - 10M	—	—	✔		✔						4.3 x 2.2 x 0.5	692502	29.99	27.99
10 - 10M	0 to 760	0 to 1400	✔		✔		✔				4.8 x 2.4 x 1.6	211650	39.95	37.95
5 - 50k	-20 to 1000	—	✔		✔		✔		✔		7.7 x 3.6 x 1.6	117373	89.95	71.90
5 - 50k	-20 to 1000	—	✔		✔		✔		✔	✔	7.7 x 3.6 x 1.6	137462	135.99	101.99
0.01 - 125k	—	—	✔		✔			✔	✔		7.4 x 3.4 x 1.4	1581185	149.95	142.45
99.99 - 50k	—	—	✔		✔		✔	✔		✔	10.9 x 6.3 x 2.2	1537328	163.05	154.91
99.99 - 50k	—	—	✔		✔		✔	✔		✔	10.9 x 6.3 x 2.2	1537336	193.69	185.91
99.99 - 99.99k	—	—	✔		✔		✔	✔		✔	7.3 x 3.5 x 1.7	192655	231.85	227.23
99.99 - 99.99k	-40 to 400	-40 to 752	✔		✔		✔	✔		✔	7.3 x 3.5 x 1.7	185535	252.05	247.90
100 - 10M	—	—	✔	✔	✔		✔	✔		✔	7.8 x 3.6 x 2.4	222527	129.49	122.99
20k	—	—	✔		✔	✔					7.4 x 3.6 x 1.2	318764	73.49	66.15
1K - 8M	-50 to 1372	-58 to 2502	✔		✔			✔	✔	✔	7.5 x 3.5 x 1.5	1581214	193.95	189.95

FLUKE

Fluke 175
(192655)
- 6000 count
- 12 functions
- Autorange
- Frequency

Fluke 179
(185535)
- 6000 count
- 13 functions
- Autorange
- Temperature
- Frequency



185535

P/N 192655
$231.85

P/N 185535
$252.05

Wavetek Meterman

Wavetek/MM 37XR
(222527)
- 10,000 count
- 14 functions
- Inductance
- Autorange
- dB display



P/N 222527
$129.49

JAMECO BenchPro

BP-1415
- 20,000 count
- 8 functions
- Capacitance

JAMECO EXCLUSIVE



P/N 318764
$73.49

Protek Test and Measurement

Protek 6800
- 80,000 count
- 10 functions
- RPM, DBM function
- Square wave generator



P/N 1581214
$193.95

Test Tools

Additional Multimeters are available online at www.Jameco.com/Test

Passive-Component Digital LCR Meter



- 4½-digit backlit LCD display
- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- **Inductance ranges:** 2000µH to 10,000H
- **Capacitance ranges:** 2000pF to 10mF
- **Resistance ranges:** 20Ω to 10MΩ
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999
- Quality (Q) reading: 0 to 9999
- Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs.

Includes: Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678	LCR Meter	$199.95	$189.95
189238	9VDC @ 300mA adapter	5.35	4.52

Mini Analog Multimeter



- Easy to read analog display
- 5% full scale accuracy
- Battery test on 9V and 1.5V batteries
- 6 functions including battery and decibel test
- **DC current ranges:** 0.5mA to 250mA
- **DC voltage ranges:** 2.5V to 300V
- **AC voltage ranges:** 10V to 300V
- **Resistance ranges:** 10KΩ to 1MΩ
- Size: 6.1"H x 3.5"W x 1.9"D • Weight: 0.5 lbs.

Includes: Test leads, protective holster and 1.5V AA battery

Part No.	Product No.	1	5
1536843	38073	$14.59	$14.24

400A AC/DC Clamp Meter/Multimeter



- Auto ranging with auto power-off
- 0.9" (23mm) jaw size
- Continuity beeper and diode test
- Overload protection
- Over range and low battery indicators
- One touch "Auto Zero"
- 4000 count LCD display
- Data hold freezes current reading on display
- Measures AC/DC current, DCV, ACV, resistance, capacitance, frequency, temperature, and duty cycle
- Basic current accuracy: AC: ±3.0%; DC: ±2.5%
- Basic voltage accuracy: AC: ±2.0%; DC: ±1.5%
- **AC/DC current ranges:** 40A–400A; 0.01A max. res.
- **Capacitance ranges:** 40nF–1000µF; 0.01nF max. res.
- **DC/AC volt. ranges:** 400mV–600V; 0.1mV max. res.
- **Resistance:** 400Ω–40MΩ; 0.1Ω resolution
- **Duty cycle:** 0.5%–0.99%; 0.1% max. res.
- **Frequency ranges:** 5Hz–150kHz; 0.001Hz max. res.
- **Temperature ranges:** -58° to +1830°F (-50° to +1000°C); 1° max. resolution

Includes: Test leads, case, and 2 AAA batteries

Part No.	Product No.	1	5
374070	MA220	$89.09	$80.18

1000A Clamp Meter with IR Thermometer

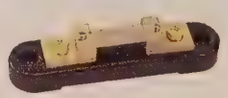


- Non-contact IR temperature measurements with laser pointer
- Peak hold captures inrush current and voltage measurement
- 1.7" (43mm) jaw opening for conductors up to 750MCM
- 4000 count backlit dual display
- Data hold and min./max.
- Auto ranging with manual range button
- Auto power off
- **IR temperature ranges:** -58°F – 518°F (-50°C – 270°C)
- **AC/DC current ranges:** 0.1A – 1000A
- **AC/DC voltage ranges:** 0.1mV – 600V
- **Resistance ranges:** 0.1Ω – 40MΩ
- **Capacitance ranges:** 0.001nF – 40,000µF
- **Frequency ranges:** 0.001kHz – 4kHz
- **Type K temp. ranges:** -4°F – 1400°F (-20°C – 760°C)
- Continuity and diode test • True RMS
- Size: 10.6"L x 4.3"W x 2.0" thick

Includes: Test leads, 9V battery, type K probe, and belt holster

Part No.	Product No.	1	5
1585881	EX830	$199.89	$189.90

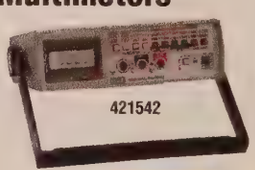
50mV/50A Current Shunt



- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A

Part No.	Description	1	10	25
162309	Current shunt ⊕	$28.19	$25.41	$22.54

2000-Count Multimeters



- Resolution: 100µV max.
- **DC voltage ranges:** 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.

160830: 3 1/2-Digit

- **DC/AC current ranges:** 20µA – 10A
- **AC voltage ranges:** 200mV – 700V
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2µS – 200nS

203801: 3 1/2-Digit

- **DC/AC current ranges:** 20µA – 2A
- **AC voltage ranges:** 200mV – 700V
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2µS – 200nS

421542: 3 1/2-Digit

- **DC/AC current ranges:** 200µA – 2A
- **AC voltage ranges:** 200mV – 750V
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2mS – 200nS
- **Frequency ranges:** 20Hz – 50kHz

✣ Refurbished = Backed by Jameco

Part No.	Product No.	Price
160830	8010A✣	$199.95
203801	8012A✣	199.95
421542	8050A✣	219.95

EZ DIGITAL 20,000-Count True-RMS Benchtop Multimeter



- 4½-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 10A
- **Resistance ranges:** 200Ω – 20MΩ
- **Frequency** measurement up to 200kHz
- Data hold, diode check, transistor h_{FE} measurement
- Continuity check with beeper
- Size: 9.9"L x 9.8"W x 3.6"H
- One-year manufacturer's warranty
- Weight: 6.1 lbs.

sale

Part No.	Product No.	1	10	25
132564	DM441	$255.55	$242.77	$230.63

velleman 3-in-1 Lab Center

Your space-saving lab solution! Everything you need in one unit.



Digital Multimeter:

- 3-1/2 backlit LCD
- Automatic polarity indication
- DC voltage ranges: 200mV to 600V
- Data hold function and buzzer
- AC voltage ranges: 200V to 600V
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor and continuity tester

Regulated Power Supply:

- Selectable output voltages: 3 to 4.5; 6 to 7.5; 9 to 12VDC
- Output current: 1.5A (2A peak)
- LED overload and power indicators
- On/off switch

Soldering Station:

- 48W ceramic heating element with temperature sensor
- 24V soldering iron
- Temperature range: 150°C to 450°C

Includes: Test leads, user manual, sponge, spare bit for soldering iron and 9V battery for DMM

Part No.	Product No.	1	5
695025	LAB1	$189.95	$175.95

For Soldering Supplies see pages 190-194



Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Oscilloscopes are available online at www.Jameco.com/Test

Handheld 5MHz Digital Oscilloscope with true-RMS Multimeter



- 5MHz bandwidth
- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input volt.: 600VDC or AC_{RMS} max.
- Trigger modes: auto, normal, single
- Trigger source: channel A, channel B, external
- Trigger coupling: AC, DC
- Timebase: 1µS to 5S
- Input impedance: 1MΩ
- Sampling time: 25MS/s dual ch.; 50MS/s single ch.
- 132 x 128 pixel super-twist two level backlit display
- Data hold and low battery indications
- RS-232 PC interface and software for transferring waveforms and data
- Resolution: 100µV max.
- **DC voltage ranges:** 0.001V to 1000V
- **AC (TRMS) voltage ranges:** 0.001V to 750V
- **Resistance ranges:** 1Ω to 5MΩ
- **Frequency ranges:** 0.01Hz to 10MHz
- **RPM ranges:** 240 to 60,000 RPMS
- Size: 3.5"W x 1.8"D x 7.7"H

Includes: Test leads, alligator clips, Ni-MH battery pack, AC adapter/charger, RS-232 cable, holster and carrying case

Part No.	Product No.	1	5
645651	381295	$449.95	$427.45

20MHz Handheld Oscilloscope with Digital Multimeter



- 20MHz analog bandwidth w/ 2 vertical inputs
- Sensitivity: 5mV to 100V/div (in 1,2,5 sequence)
- 8-bit resolution
- Input impedance: 1MΩ ±1%; 20pF ±1.3pF
- Probe attenuation: x1 and x10
- Horizontal sweep rate: 50ns/div to 50s/div
- Acquisition system: sample, peak detect, envelope, average
- Waveform interpolation: dot, linear, sine, and pulse
- Trigger sensitivity: 0.5V/div (DC to 5MHz)
- Trigger type: edge, pulse width, video
- Coupling: AC/DC, HF-reject, LF-reject, noise reject
- **DC voltage range:** 600mV to 1000V
- **AC voltage range:** 6V to 600V
- **Resistance range:** 600Ω to 60MΩ
- **Capacitance range:** 60nF to 300µF
- Diode, continuity, high current and temperature test
- Size: 8.3"H x 4.2"W x 2.2"D

Power requirements: 9VDC @ 1A power supply or 7.2V NIMH battery pack

Includes: Power adapter, manual, scope probe, test leads, holster, USB cable and software

Part No.	Product No.	Price
1918999	Protek 820	$1,179.95

2MHz Panel Mount Oscilloscope



This compact scope at only 1.4" deep is perfect for continuous monitoring and system analysis.

- High contrast LCD display with backlight, 128 x 64 pixels
- Maximum sample rate: 10MHz for repetitive signals (2MHz for single shot events)
- Maximum input amplifier bandwidth: 2MHz
- Input impedance: 1MΩ/20pF
- Maximum input voltage: 100Vpeak (AC+DC); 200Vp-p (AC only)
- Input coupling: DC, AC, and GROUND
- Vertical resolution: 8-bit
- Trigger modes: Run, normal, roll mode for 1s/div and slower time base
- Signal storage: 256 samples max., 125 samples visible
- dBm measurement: - 73dB to 40dB*
- dBV measurement: -75dB to 38dB*
- True RMS measurement: 0.1mV to 80V*
- Peak to peak AC range: 0.1mV to 160V*
- Timebase ranges in 32 steps: 0.2uS to 1 hour/division
- Input sensitivity ranges in 12 steps: 5mV to 20V/division @ x1; 50mV to 200V/division @ x10
- Input voltage: 6VAC or 9VDC@300mA
- Size: 6.5"W x 3.5"H x 1.4"D • Weight: 1.0 lb.

Part No.	Product No.	1	5
645280	VPS10	$189.99	$184.99

*Increased performance with x10 probe

Don't Get Caught without One!



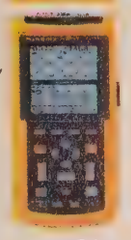
DMM's are so inexpensive today that we should never be caught without one. While many of us generally need a highly-accurate, full-function multimeter for some testing, often a basic low-cost device will get the job done.

In lab situations, I find that having a DMM dedicated to each work area is most effective. A few associates reduce pilfering by assigning locked tool cabinets to each lab and lead. Others use holsters to keep secondary devices with them at all times.

Whatever works best for your situation, just be sure to equip your team and yourself for maximum efficiency. It's a small cost for a relatively reasonable productivity gain.

Practical Practices
Money Saving Tips for the Engineer

20MHz Industrial Scopemeter®



Digital Scope, 15-Function Digital Multimeter & Recorder

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. It automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.

✣ Refurbished = Backed by Jameco

Part No.	Description	Price
162747	Fluke 123-003 w/o software ✣	$995.05

2-Channel USB PC Oscilloscope



The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. Its highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz give this unit all the power you need.

Oscilloscope:
- Input range: 5mV to 2V/division
- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Real time sampling frequency: 1.25kHz to 50MHz
- Sampling frequency for repetitive signals: 1GHz

Spectrum analyzer:
- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

Transient recorder:
- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Min./Max. number of samples: 20/s; 100/s

System requirements: IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

Includes: PC oscilloscope, 2 x 60MHz scope probes, USB cable and CD-ROM

Part No.	Description	1	5
695017	PCSU1000	$487.89	$439.35

50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder



- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel port interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V AC/DC
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576, pg 161)

Oscilloscope:
- Time base: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel

Spectrum Analyzer: Frequency range: 0 to 25MHz

Transient Recorder:
- Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Includes: 2 Test leads, parallel cable and CD-ROM

Part No.	Product No.	1	5
200184	PCS500AU	$454.99	$408.45

We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to NewProducts@Jameco.com.

Additional Oscilloscopes are available online at www.Jameco.com/Test

20MHz 2-Channel Analog Oscilloscope



- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 gain selected
- Horizontal deflection: 0.1µs/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input voltage: 115/230VAC w/ line voltage selector
- ADD function measures sum of two signals
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.

Includes: Two (X1/X10) test probes, power cord & manual

Part No.	Product No.	1	5
685311	SK0200	$399.95	$379.95

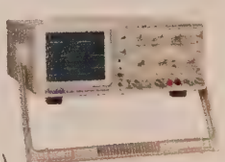
20MHz Dual Trace Oscilloscope with Alt-Mag



- 3.15" x 3.94" CRT with internal graticule and scale
- Vertical amplifier: 5m/DIV to 5V/DIV in 10 steps (1-2-5 sequence)
- Horizontal sweep: 200ns/Div to 0.5s/Div in 20 steps (1-2-5 sequence)
- External trigger input: impedance – 1MΩ ±5% + 20pF capacitance; maximum input voltage – 160V (DC or AC peak)
- Size: 12.5"W x 15.75"D x 5.1"H
- Z axis modulation: 5Vp-p sensitivity; maximum input voltage – 50V or ACp-p • Weight: 16 lbs.
- Input voltage: 120VAC or 220VAC @ 50/60Hz

Part No.	Prod. No.	1	5	10
1536801	PROTEK 6020	$511.35	$485.77	$461.48

30MHz Dual Trace Oscilloscope w/ LCR Component Tester



- 3.15" x 3.94" CRT with graticule and scale
- Vertical amplifier: 5mV/DIV to 20V/DIV in 12 steps (1-2-5 sequence)
- Horizontal sweep: 100ns/DIV to 0.2s/DIV in 20 steps (1-2-5 sequence)
- Triggering: external trigger input – 1MΩ ±5% impedance; maximum input voltage – 4-p)
- Input voltage: 120VAC or 220VAC @ 50/60Hz
- Size: 12.2"W x 16.45"D x 5.1"H • Weight: 14.3 lbs.

Part No.	Product No.	1	5	10
1536819	PROTEK 6030	$531.45	$504.84	$479.60

INSTEK 150MHz 2-Channel Digital Oscilloscopes

Color and Monochrome with RS-232/USB/Parallel Interfaces



229366

- Bandwidth (-3dB): 150MHz
- 15 memory settings
- Real-time sample rate: 100MS/s max. on each channel; equivalent: 25GS/s
- Record length: 125k/CH
- 2 channels with 8-bit vertical resolution
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div – 5V/div
- Time base range: 1ns/div – 10s/div
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- Input voltage: 100-240VAC @ 50-60Hz
- Frequency counter: 6 digits ±50ppm; AC coupled, 10Hz – 150MHz
- Weight: 9.3 lbs.
- Size: 12.2"W x 10.0"D x 5.6"H • Two-year warranty

229358: Monoch. w/ RS-232/USB/parallel interface
229366: Color with RS-232/USB/parallel interface

Includes: BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229358	GDS-820S	$1,196.95	$1,134.10
229366	GDS-820C	1,439.95	1,367.95

17MHz Logic Probe



- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high and low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
149930	Logic probe	$37.55	$33.85	$30.35

Logic Pulser



- Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz pulse train
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10µs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H

Quantity Save

Part No.	Description	1	10	25
24601	Logic pulser	$29.19	$24.81	$18.61

Modular Oscilloscope Probes



22892 216047 236777

- Hook and pointed probes
- **216047/236777**: with IC test ground cover and spring ground contact
- Length: 5' • Maximum input voltage: 600V
- Alligator clip ground wire • BNC male connector

Part No.	Bandwidth (±3dB) Attenuation x1	Bandwidth (±3dB) Attenuation x10	Impedance (R/C)* Attenuation x1	Impedance (R/C)* Attenuation x10
22892	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

* with 20pF oscilloscope input

Part No.	Cross Ref. No.	1	10	50
22892	LF101E℞	$29.95	$26.96	$24.26
216047	HF-9100	34.95	29.95	26.95
236777	HP-9250	45.95	43.39	37.25

Pomona ELECTRONICS 100MHz Probe Set



- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF
- Compensation range: 10~60pF • 48" cable

Part No.	Product No.	Description	1	10
156451	4550B	Probe kit	$52.45	$50.38

PROBE MASTER Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.



174473

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'

174473: 7-piece kit
212257: 25-piece kit



212257

Part No.	Product No.	1	10
174473	4901-02 (150MHz)	$44.05	$42.62
212257	4915A (250MHz)	159.05	151.12

40MHz Multifunction Oscilloscopes w/ Built-In 5MHz Function Generator

Oscilloscope:

- 6" rect. high res CRT
- Max signal input volt.: 400V (DC and AC peak)
- Input voltage: 100/120/220/240VAC @ 50-60Hz
- Size: 15.7"L x 12.8"W x 5.2"H • Weight: 26 lbs.
- Two-year manufacturer's warranty

1586200: w/ built-in 60mHz auto-detect counter

Function generator:

- Frequency range: 0.5Hz to 5MHz (6 ranges)
- Output waveforms: sine, triangle, square
- Output impedance: 50Ω
- Output volt.: 20Vp-p (no load), 10Vp-p (w/50Ω load)



1536886 2 Instruments in 1 1586200

Part No.	Product No.	1	10
1536886	SK0404	$529.95	$499.95
1586200	SK0409	789.95	709.95

Commercial Customers

Open an account with us to consolidate your monthly billing and save time. 1-800-831-4242

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Frequency Counters & Function Generators are available online at www.Jameco.com/Test

Wire Tracer/Tone Generator Kit



- Typical applications: identifies wire pairs, trace LAN and telephone cables, check continuity, test telephone polarity, F type connector for testing 75Ω coaxial video cables
- Transmitter with output cables terminated in modular RJ11 and RJ45 phone connectors
- Injects traceable signal into cables, checks telephone lines, and performs continuity checks
- Adjustable sensitivity control improves wire identification and eliminates false detection
- Non-contact probe audibly identifies selected wire/cable
- Traces wires from source to termination
- Size: Probe – 5.8"L x 1.1"W x 1.1"D; Generator – 4.1"L x 2.6"W x 0.9"D

Includes: Tone probe and tone generator with RJ11 and RJ45 connectors, adaptor with F type coaxial connector, alligator clips, 4 LR44 batteries, 9V battery and carrying case

Part No.	Product No.	Price
692511	TG30	$55.45

100MHz Logic Analyzer USB Interface



DigiView™ is a 18-channel, 100MHz logic analyzer with professional quality and high portability. DigiView™ uses a deep-capture buffer and real time hardware compression to achieve long period captures without reducing resolution.

- 18-channels, 100MHz
- USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- Trigger on rising, falling, or transition of any channel
- Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution

Part No.	Description	1	5
256866	USB logic analyzer	$498.95	$474.09

1.5GHz Frequency Counter

2 Channels



- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1nHz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM • Weight: 5.3 lbs.
- Size: 10.3"L x 10.0"W x 3.2"H • One-year warranty

EZ DIGITAL

Includes: Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790	FC-7150	$284.95	$259.95

Protek Test and Measurement 3GHz Universal Counter

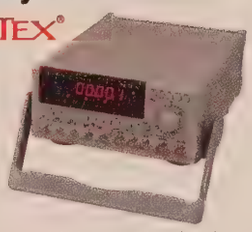


- High accuracy frequency measurements up to 3GHz
- Measures frequency, time interval, ratio, and totalize
- Large, bright 8-digit LED display with gate time and function indicators
- Frequency measurement: input A DC coupled 0.1Hz to 10MHz, AC coupled 10Hz to 100MHz with gate times of 0.01s to 10s in 4 decades; input B DC coupled 0.1Hz to 10MHz, AC coupled 10Hz to 100MHz; Freq C 100MHz to 3GHz with gate times of 0.0128s, 0.128s, 1.28s, and 12.8s
- Input voltage: 100/120/220/240V @ 50-60Hz
- Power consumption: 20W
- Size: 10.0"W x 11.0"D x 4.0"H • Weight: 5.3 lbs.

Part No.	Product No.	1	5
1581206	B3110	$427.95	$417.25

10MHz Sweep Function Generator w/ Frequency Counter

Function Generator



- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 1Hz to 10MHz
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Output impedance: 50Ω ±10%
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

Frequency Counter

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mV$_{RMS}$ sine wave or 100mVp-p; channel B: 40mV$_{RMS}$ for 20MHz to 1.3GHz; 70mV$_{RMS}$ for 1.3GHz to 2.7GHz
- Maximum input voltage: ch. A: 35Vp-p; ch. B: 3Vp-p
- Input impedance: channel A: 1MΩ; channel B: 50Ω
- Data logging and graphic software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax and power cable, manual, serial cable and software

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	5
221911	10MHz/2.7GHz ✪	$438.85	$423.51

3MHz Function Generator with Positive and Negative Pulses



- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges • Size: 10.5"W x 11.2"D x 3.9"H
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch • Weight: 6.6 lbs.

Part No.	Product No.	1	5
685329	SK3000	$209.79	$199.35

2MHz & 3MHz Function Generators w/ Frequency Counter

Function Generator



229251

- Waveforms: sine, triangle, square, TTL, and CMOS output; 229260 has ramp
- Frequency ranges: **229251:** 0.2Hz – 2MHz in 7 ranges; **229260:** 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control

INSTEK



229260

Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs.
- Two-year warranty

229251: • 4-digit LCD display
- Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz
- Size: 9.1"W x 11.0"D x 3.7"H

229260: • 6-digit LCD display
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

Includes: Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251	GFG-8020H	2MHz	$259.95	$246.95
229260	GFG-8216A	3MHz	279.95	251.99

5MHz Function Generator



- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs.
- Two-year warranty

BK PRECISION

Part No.	Product No.	1	5
160469	BK4011A	$339.29	$322.34

Function Generator Kit

Sine, Triangle and Square Wave



Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.

- 21-piece kit includes: chip, components, PC board, hardware
- Intermediate Level
- Size: 4.1"L x 1.5"W

Requires: 12VDC supply or ±6VDC split supply

Part No.	Cross Ref. No.	1	10
20685	JE2206	$24.95	$22.95

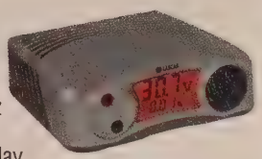
If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Benchtop Power Supplies are available online at www.Jameco.com/Test

30-Watt Digital Benchtop Power Supply

- Single output, adjustable from 1.5VDC to 30VDC
- Compact design
- Input voltage: 85-264VAC @ 47-63Hz
- Output terminals
- Large digit backlit display
- Fixed current output
- Overload and short-circuit protection
- Size: 5.5"L x 5.2"W x 1.6"H • Weight: 1.2 lbs.



Part No.	Product No.	1	10
301971	PSU130	$88.99	$85.00

30 & 54-Watt Digital Benchtop Power Supplies

- Single output
- Adjustable voltage output: 645600 = 0-30V; 681221 = 0-18V
- Adjustable current output: 645600 = 0-1A; 681221=0-3A
- Max. display resolution: 0.1V/10mA
- Color coded banana plug output jacks
- Input voltage: 120VAC @ 60Hz
- Size: 9.4"H x 4.3"W x 6.1"D



645600

Part No.	Product No.	Wt. (lbs.)	1	5
645600	382200 (30W)	4.4	$128.69	$115.82
681221	382202 (54W)	6.6	138.95	134.95

Dual Tracking, Triple Output DC Power Supply

Four Mode 60V/1.5A DC Regulated

- Linear power supply
- Four modes of operation: tracking, independent, series and parallel
- Dual 4 digit LED displays
- Input voltage: 110 or 220VAC
- Voltage output range: 0 to 60V
- Current output range: 0 to 1.5A
- Constant voltage and current mode
- Overload and short-circuit protection
- Dual independently or simultaneously adjustable 0V to 60V and 0A to 1.5ADC outputs
- Variable auxiliary metered output (1.5V to 6.5V) for power circuits of up to 5A
- Outputs of up tp 120VDC in series mode or 3ADC in parallel mode • Size: 15.9"W x 9.8"D x 5.3"H



Part No.	Product No.	1	10
1585928	382285	$497.99	$487.99

90-Watt Digital DC Power Supply

30V @ 3A

- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant voltage and current operation
- Size: 5.1"W x 10.1"D x 5.9"H



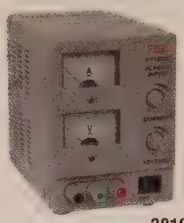
Part No.	Description	1	5
489184	DRP-303D	$189.95	$179.95

45W to 600W Benchtop Power Supplies

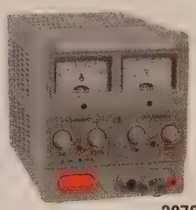
- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 115/230 ±10% VAC

Analog display power supplies
- Accuracy: 2.5%

Digital display power supplies
- Voltage accuracy: 1% + 2 digits
- Current accuracy: 1.5% + 2 digits



301920



207618



207706



211693

Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
301920	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9	$119.95	$113.94
301866	HY3003D⊕	2-Digital LCD	90	30/3	5.4 x 6.2 x 11.5	10	179.95	134.96
207618	HY3005C⊕	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	169.55	161.07
207626	HY3010C⊕	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31	359.95	269.96
207694	HY5002ℛ	2-Digital LED	100	50/2	5.4 x 6.2 x 11.5	13	208.95	156.71
301912	HY3005Dℛ	2-Digital LCD	150	30/5	5.4 x 6.2 x 11.5	13	247.45	235.07
207706	HY5003⊕	2-Digital LED	150	50/3	5.4 x 6.2 x 11.5	13	267.45	224.00
207600	HY5005	2-Digital LED	250	50/5	10.4 x 6.5 x 14.4	17	339.95	322.94
207635	HY3010ℛ	2-Digital LED	300	30/10	10.4 x 6.5 x 14.4	31	439.95	335.50
207686	HY3020ℛ	2-Digital LED	600	30/20	10.4 x 6.5 x 14.4	42	555.35	499.82

Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
211722	HY3002-2ℛ	2-Digital LED	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	$269.95	$202.46
211705	HY3002D-2⊕	4-Digital LCD	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	269.95	202.46
211693	HY3003D-2ℛ	4-Digital LCD	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	318.95	285.95
211730	HY3003-2⊕	2-Digital LED	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	329.95	247.39
211713	HY3003-3	2-Digital LED	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	319.95	239.96
211684	HY3003D-3⊕	4-Digital LCD	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	329.95	296.95
301947	HY3005Dℛ	4-Digital LCD	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5	384.95	365.70
301955	HY3005D-3ℛ	4-Digital LCD	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29	406.95	386.60
301962	HY5003-2⊕	2-Digital LED	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26	339.95	254.96

150-Watt Power Supply

50VDC @ 3A

- Adjustable voltage/current outputs • Constant voltage & current operation
- Input voltage: 110VAC @ 60Hz • 3A @ 115V fuse
- Color-coded terminals for ground, positive and negative terminals
- Color-coded adjustment knobs for voltage, current and fine adjustment
- One-year warranty



Part No.	Description	Color	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
163723	50VDC @ 3A	Dark gray	9.0 x 4.75 x 7.5	12.3	$146.85	$139.49	$132.49

150 to 250-Watt Analog Power Supplies

- Color-coded adjustment knob and output terminals for voltage • Built-in fan
- Voltage and current panel meter • Constant voltage and current operation

175265: 15VDC @ 10A, 150-Watt
- Output current: 15A max.
- Input voltage: 110VAC @ 60Hz
- Overvoltage, overcurrent, short-circuit protection
- Cigarette lighter plug for current output
- LED indicator for power and warning



175265



175257



175249

175257: 15VDC @ 15A, 225-Watt
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)
- LED indicator for power and warning
- Overvoltage protection @ 16.5V
- Short-circuit protection @ 27.5A
- Cigarette lighter plug for current output

175249: 50VDC @ 5A, 250-Watt
- 5A @ 250V fuse • Input voltage: 110VAC @ 50-60Hz • Isolated ground

Part No.	Cross Ref. No.	Output Voltage	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
175265	DPS150A	2-15VDC	5.7 x 6.2 x 4.0	12.0	$163.45	$147.10	$141.65
175257	SPS250A	9-15VDC	5.6 x 6.2 x 4.0	3.8	159.95	143.95	129.56
175249	DPS5050	0-50VDC	4.9 x 7.7 x 6.7	13.8	195.65	185.35	176.64

ℛ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

100-Watt Triple Output Digital and Analog DC Power Supplies

30VDC @ 3A



197991

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Constant voltage or current
- Current limiting indicator
- Displays of both voltage and current
- Overload and short-circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.

Part No.	Description	1	10
197991	Digital DC	$197.99	$186.19
197982	Analog DC	168.95	151.95

200W Programmable Switching Power Supplies with PC Interface



- Voltage regulation: 10mV load; ≤0.05% line
- Current regulation: 5mA load; ≤0.05% line
- Output ON/OFF control
- Ripple: ≤20mV$_{RMS}$; ≤10mA$_{RMS}$
- Overvoltage/overcurrent/overpower/overtemperature protection
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs. • Two-year warranty

Includes: Power cord, operations manual & test leads

Part No.	Product No.	Description	1	5
229323	PSP-2010	0-20V @ 0-10A	$349.95	$332.45

200W Programmable DC Power Supply



- High resolution programmable output and two fixed outputs of 5V and 3.3V
- Selectable constant voltage or current modes
- Auto output of up to 200 steps with programmable voltage, current and time
- Programmable overvoltage/overcurrent protection
- Storage/recall memory for 200 test set-ups
- Dual high contrast LCD display with backlight
- Dual output terminal for source & monitor connections
- Size: 12.2"W x 9.9"D x 5.3"H

Part No.	Product No.	1	10
1585901	382280	$597.99	$587.65

Infrared Thermometer



The Fluke 65 provides quick non-contact temperature measurement in a compact case surrounded with a protective holster. The ideal tool for measuring surface temperatures of rotating, hard-to-reach, electrically live, or dangerously hot targets.

- Large dual display LCD display
- Laser beam provides easy targeting
- Store and recall any single temp.
- Temp. range: -40° to 500°C
- Resolution: 0.1° up to 200°, 1° over 200°
- Optical resolution: 8:1 distance to spot size ratio

Includes: Soft carrying case, batteries & instructions

Part No.	Product No.	Price
164321	Fluke 65	$269.95

Pocket IR Thermometer with Laser Pointer



The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.

- Temperature range: -58°F to 518°F (-50°C to 270°C)
- Built-in laser pointer to improve aim
- °F/°C switchable • 6:1 field of view
- Fixed emissivity (0.95) covers 90% of surface applications • Pocket size meter
- Visual overrange indicator • Data hold/max hold
- Size: 3.8"L x 2.0"W x 0.9"D

Best Seller!

Includes: 2 AA batteries

Part No.	Description	1	5
219361	Pocket IR thermometer	$59.95	$56.99

Mini IR Thermometer



- Economical mini-size design for convenience
- Automatic data hold when measure button is released
- Maximum or minimum hold
- Field of view: 1:1
- Temperature range: -31°F to 446°F (-35°C to 230°C)
- Lock feature for continuous scanning
- Maximum resolution: 0.1°F/°C
- Fixed emissivity covers 90% of surface applications
- Auto power off • Size: 3.0"L x 1.6"W x 0.7"D

Part No.	Product No.	1	5
1537299	IR100	$29.25	$28.49

Digital Psychrometer

External Probe Temperature Measurements for Differential

Unique sensor cap design twists to closed position for protection during storage.



- Simultaneous display of %RH, temp. and dew point or web bulb or probe temp.
- Temp. ranges: (internal) -4°F to 122°F (-20°C to 50°C); (external) -4°F to 158°F (-20°C to70°C)
- Temp. ranges: -90.4°F to 122°F (-68°C to 49.9°C)
- Wet bulb measurement without slinging
- Calculates T1-T2 differential (air temp. minus external probe temp. using optional probe)
- Data hold freezes current reading on display
- Switchable °F/°C temp. reading • Auto power off
- Min./max. readings • Size: 7.0"L x 1.9"W x 1.0"D

Part No.	Product No.	1	10
1581142	RH300	$89.95	$86.59
1581151	TP890 (optional thermistor temperature probe)	15.95	14.99

Moisture Meter



- Adjustable pins for wood and other porous building materials
- Moisture content: 0 - 100
- Temp. range: 32°F to 122°F (0°C to 50°C)
- Unique dual LCD displays wall moisture and air temp. simultaneously
- Moisture content displayed on a relative scale • Low battery indication
- Multi-position pins w/ safety storage for replaceable pins • Selectable slide switch
- Data hold to freeze reading on display
- Calibration adjustment for better repeatability
- °C/°F switchable • Size: 7.6"L x 1.8"W x 0.8"D

Includes: 2 AAA batteries, 10 spare pins & pouch case

Part No.	Product No.	1	10
1581134	MO100	$59.95	$57.45

Combustible Gas Leak Detector



- Detects combustible gas – liquefied natural gas (LNG) and liquefied propane gas (LPG) 500-6500ppm • One switch operation
- Convenient compact portable size
- Highly sensitive detection circuitry
- Audible and visual alarm
- LED indicators for gas leakage & static absorption • Size: 6.5"L x 0.8"Dia.
- Continuous operation up to 4 hours

Includes: 2 AAA batteries

Part No.	Product No.	1	10
1581169	FG100	$59.95	$58.95

Pen DMM with Non-Contact Voltage Detector



- Large 2,000 count LCD display
- Non-contact voltage detection with visible & audible alarm
- Retractable tip for safe storage
- Auto ranging with data hold, range hold, and maximum hold • Auto power off
- Overload & low battery indication
- Non-contact voltage range: 50VAC to 600VAC
- DC voltage ranges: 200mV to 600V with 0.1mV res.
- AC voltage ranges: 200mV to 600V with 0.1mV res.
- Resistance ranges: 200Ω to 20MΩ with 0.1Ω resolution • Diode & continuity test
- Size: 8.2"L x 1.5"W x 1.1"D • Weight: 0.3 lbs.

Includes: Test leads with alligator clips, two 1.5V AAA batteries, and carrying case

Part No.	Product No.	1	5
1537184	381676	$38.99	$37.99

Digital Light Meter



- Measures in Lux and footcandle ranges
- Range: Lux – 0 - 50,000 Lux (3 ranges); footcandle – 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling • 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
131764	Digital light meter	$99.95	$89.95

Remote & Local Continuity Tester



- Local continuity checking is accomplished by a flashing LED and pulsating beeper
- Remote continuity is accomplished with the use of a remote probe, it does not tie up two people when identifying and labeling wires and cables
- Two lead, bi-color led (red/green) is used on the remote probe that allows a single user to identify up to three wires or cables at a time
- Drives a 20mA DC current pulse through wires or cables under test for polarity identification

Part No.	Product No.	1	5
1537272	CT20	$29.25	$28.49

Non-Contact AC Voltage & Current Detector



- The only 2-in-1 non-contact AC voltage and current detector
- Non-contact AC current detection range: 200mA to 1000A
- Non-contact AC voltage detection range: 12V to 600VAC
- Current sensor detects current flow through shielded wires, conduit, & metal circuit breakers/junction boxes
- Sensitivity adjustments to increase or decrease sensor trigger threshold
- Audible & visible sense detect indicators
- Detects current flow of 400mA @ 0.2" distance, longer distances for larger current flows
- Size: 7.6"L x 1.2"W x 0.9"D • Weight: 0.2 lbs.

Includes: Four LR44 button type batteries and clip

Part No.	Product No.	1	5
1537192	DVA30	$38.99	$37.99

AC Circuit Breaker Finder/Receptacle Tester

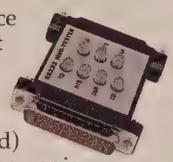


- Quickly locates 110V to 125V AC circuit breaker and fuses
- Variable sensitivity adjustment to pinpoint correct circuit breaker
- Bright red and green LEDs indicate if receptacle is correctly wired for six fault conditions
- Push button GFCI test
- Audible and visual circuit breaker indication
- Eliminates circuit interruptions
- Applications: locate branch circuit breakers without flipping breakers, confirm proper wiring during installations or repairs, test receptacle ground fault operation
- Size: 8.5"L x 2.3"W x 1.5" Thick

Part No.	Product No.	1	5
1585899	CB10	$29.95	$29.29

Place your order by 6PM EST for same business-day shipment.

RS-232 Mini-Tester w/ Status LEDs



Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.

Part No.	Description	1	10	100
26729	Mini-tester	$11.95	$10.76	$9.68

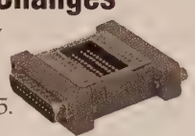
RS-232 Loopback Tester



The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.

Part No.	Description	1	10	100
22728	Loopback tester	$6.95	$5.95	$4.45

Miniature RS-232 Breakout Box for Quick Design Changes

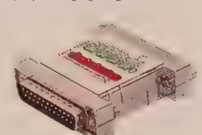


Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.

Includes: 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181	Breakout box	$10.75	$9.54	$8.34

RS-232 Line Status Tester



Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.

Part No.	Description	1	10	100
14285	Check line tester	$10.75	$9.71	$8.70

RS-232 Signal Adapter/Splitter



- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts

Quantity Save

Part No.	Description	1	10	100
105196	Serial adapter ℞	$9.55	$8.34	$6.25

Flexible Multilink RS-232 Tester & Breakout Box



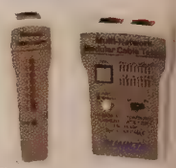
Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" and reconfiguration. Connectors: DB25 male & DB25 female.

- Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

Includes: Handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945	Tester/breakout box	$27.55	$23.94	$21.54

Modular Cable Tester



Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.

- Check for cable continuity, miswiring, open, short, grounding, and pin configurations • One-year warranty
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

Includes: Manual and test cables

Part No.	Description	1	10
145710	Modular cable tester	$84.95	$76.49

Tone Generator & Amplifier Probe

For Tracing Wires & Cables

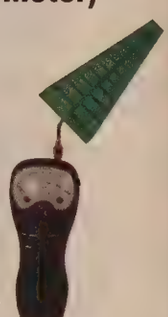


- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Output jacks for both headphones and handsets

Includes: Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002	Tone gen. & amp. probe	$79.99	$71.99

ZapChecker (RF Field Strength Meter)



Detect and measure all those weak radio signals on HF, VHF, UHF or Microwave frequencies. Ideal for discovering wireless bugs and covert cameras, the ZAPCHECKER also works well to help install wireless security systems and wireless computer networks by checking where the strongest signal is. Measure electromagnetic radiation and emissions from microwave ovens, cell phones, wireless phones, and electronic equipment. ZC-300 includes a log periodic antenna for that extra boost in locating and measuring signals and a BNC connector if you choose to use other antennas.

- Sensitivity control: 20dB, (10:1) signal control range
- Sensitivity: 45µV
- Detection modes: LINEAR – for far-field detection of weakest signals: 12dB
- Dynamic range: LOG – for near-field localization without overloading: 60dB
- Dynamic range MID – for intermediate detection and localization: 25dB dynamic range
- Analog mode: for detecting and measuring continuously transmitted signals
- Digital mode: for detecting, identifying, and measuring digitally pulsed signals
- Silent vibrator: intensity modulated, switch-enabled vibrator for mid to high level signals
- Analog meter display for visual indication of changes and levels of RF signals
- Approximately 80 hours of battery life (2 x AA bat.)
- LED display indicators • Size: 2.1"W x 1.3"D x 5.0"H

Part No.	Description	Frequency	1	10
667817	ZC-300	1MHz-8GHz	$398.95	$370.45

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Test Accessories are available online at www.Jameco.com/Test

PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. PC Cable-Check Pro tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female–female cables and Firewire.



Paladin Tools®

- Easy to read LED indicators for mapping connections
- Auto power off, auto scan, and manual scan

Includes: 9V battery

Part No.	Product No.	Price
652480	1577⊕	$164.95

KEYSTONE Looped Color Coded Test Points

- Phosphor bronze, silver plated wire
- Snap-fit mount
- PBT, UL94V-0



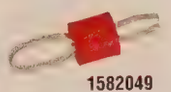
1581986



1582006



1582014



1582049



1582073

Minimum order 10 pieces

Miniature (.300" L, .040" Dia. Mtg. Hole)

Part No.	Product No.	Color	10	100
1581986	5001℞	Black	$.133	$.124
1581994	5002℞	White	.247	.222
1582006	5004℞	White	.238	.214

Compact (.350" L, .063" Dia. Mtg. Hole)

Part No.	Product No.	Color	10	100
1582014	5005℞	Red	$.175	$.164
1582022	5006℞	Black	.235	.211
1582031	5007℞	White	.235	.211

Multipurpose (.445" L, .063" Dia. Mtg. Hole)

Part No.	Product No.	Color	10	100
1582049	5010℞	Red	$.239	$.215
1582057	5011℞	Black	.239	.215
1582065	5012℞	White	.175	.164
1582073	5014℞	Yellow	.239	.215

How to Test Almost Everything Electronic



TAB Publishing Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.

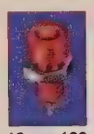
- Size: 7.4" x 9.3"
- Weight: 1.3 lbs.

Part No.	Description	1	10
126199	How to Test Everything	$19.75	$17.95

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com

KEYSTONE Banana Jacks

- Fully insulated
- Chassis mounting
- Size: .937"L x .433"Dia.
- .182" solder tab



1582170

Part No.	Product No.	Color	1	10	100
1582170	6091℞	Red	$1.05	$1.02	$1.00
1582188	6092℞	Black	1.05	1.01	.90

Pomona Stackable Banana Test Lead Cables



159898 159901 159919

- 5000V @ 15A
- 55°C max.

159898: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation

159901: Two 24" leads **159919**: Two 36" leads

✪ Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Description	1	10	25
159898	3782-36⊕✪	Mini w/ banana	$9.95	$9.45	$9.00
159901	B-24-02⊕✪	Patch cord	10.65	9.58	8.51
159919	B-36-02⊕✪	Patch cord	10.65	9.58	8.51

Pomona BNC to Minigrabber® Test Clips

- RG 174/U, .100" O.D.
- Rating: 300 V_{RMS} max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"



Part No.	Product No.	1	10
176954	5187-K-36℞	$25.25	$24.02

Pomona BNC Male w/ Molded Strain Relief to Minigator® Test Clips

- RG 58C/U, .195" O.D.
- Rating: 45 V_{RMS} max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"



✪ Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10
176971	4532-C-36⊕✪	$18.95	$16.95

Pomona Solderless Banana Plugs



159863 159855 159927

- Nickel-plated
- Set screws secure leads
- ABS insulation
- 5000VDC @ 15A
- Sets include 1 black and 1 red
- 50°C max.

159863: w/ safety collar **159855:** w/ set screw

159927: double banana plug w/ wire guide

✪ Blue Part No. = Limited Quantity Available

Part No.	Product No.	Description	1	10	25
159863	1825-02⊕✪	Safety collar	$3.29	$2.99	$2.69
159855	1325-02⊕✪	Set screw	3.49	3.17	2.85
159927	MDP-02⊕	Double banana	5.15	4.89	4.64

Pomona BNC Cables

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871: 36" P/N 159880: 60"



159871

Part No.	Product No.	1	10	25
159871	2249-C-36℞	$16.59	$14.97	$13.47
159880	2249-C-60℞	17.79	16.72	16.04

KEYSTONE PC Test Points

- Straight
- Solder
- Minimum order 10 pieces



1581601

1581601/1581951:
- .118"W
- 25µ" thick



1581960

1581960:
- .094"W
- 20µ" thick

Part No.	Product No.	Description	10	100
1581601	1033℞	Looped, .171"L	$.10	$.095
1581951	4951℞	Slotted, .275"L	.053	.05
1581960	4953℞	Looped, .355"L	.064	.06

KEYSTONE Test Jacks

- Current rating: 5A
- Accepts .080" tip
- Black

1582145/1582153: Vertical
- Size: .312"L x .187"Dia.

1582161: Horizontal
- Size: .208"L x .203"H x .147"W



1582145 1582161

Part No.	Product No.	Description	1	10	100
1582145	6038℞	PC Mount	$.65	$.59	$.524
1582153	6040℞	Snap-fit	1.27	1.11	.94
1582161	6050℞	PC Mount	.74	.72	.70

Pomona Minigrabber® Test Clip Patch Cord Kit

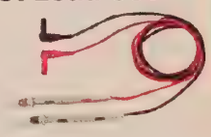


- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends

✪ Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Description	1	10
156494	5523⊕	Patch cord (hook)✪	$43.75	$40.23

Pomona Replacement Probe Test Lead Set



- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors

✪ Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	25
155951	5519A⊕✪	$14.99	$13.69	$12.99

Pomona 11"L Test Lead Holders

155985: Max cable dia.: 0.450"
155977: Max cable dia.: 0.320"
155969: Max cable dia.: 0.210"



155985

✪ Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Slots	Color	1	10	25
155985	2708B℞	9	Blue	$11.29	$10.30	$10.23
155977	4408⊕✪	10	Black	11.49	10.69	9.99
155969	1508℞	14	Orange	12.95	11.75	10.79

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Banana Plugs, Test Cables & Alligator Clips

Color Code Legend: New Sale Lower$ QtySave

Additional Test Accessories are available online at www.Jameco.com/Test

1 9/16" Banana Plugs



- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.

Includes: One red and one black plug

Part No.	Description	1	10	100
72195	Banana plugs	$1.59	$1.49	$1.25

2 1/4" Banana Plugs



- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W • Set-screw connection

Includes: One red and one black connector

Part No.	Description	1	10	100
137526	Banana plugs	$2.95	$2.12	$1.84

Double Banana Plugs



- Dual gold-plated female banana plugs • Stackable

125217

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
125209	Black banana conn. ✪	$3.29	$2.79	$2.09
125217	Red banana conn. ✪	3.35	2.58	2.34

BNC to Standard Double Banana Plugs

LOWER PRICES



11440



125225

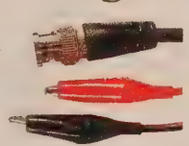
Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11440	BNC banana plug (F)	$5.95	$5.39	$4.79
125225	BNC banana plug (M)	7.25	6.17	4.95

BNC to Alligator Clip Test Cable

Quantity Save

Permits BNC assembly to be used as a test cable.



- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector

Part No.	Description	1	10	100
11384	BNC cable	$4.05	$3.44	$2.58

BNC to Clip Test Cables



11422



11464

BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip • Length: 39"

Part No.	Description	1	10	50	100
11422	Micro-clip RG174	$3.99	$3.19	$2.89	$2.59
11464	Mini-clip RG174	4.39	3.99	3.59	3.19

Banana-to-Banana Test Leads



- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package • 18 AWG wire

Part No.	Description	1	10	25
77842	Test leads	$22.95	$20.69	$18.59

Double-Banana Plug to Alligator Clips Test Cable



- Red & black rubber boot
- 4" lead wire
- Length: 3'

Part No.	Description	1	10	50	100
107423	Test cable	$4.75	$4.19	$3.54	$2.99

1" Screw-Type Binding Posts



- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount w/ lock washer and nut • Solder tab hole: 0.06"Dia.
- Size: 1.0"L x 0.5"Dia.

Requires: 0.32" mounting hole
Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71240	Binding posts (2)	$1.05	$.90	$.74	$.63

1 3/4" Screw/Solder Binding Posts



- For both wire & standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.06"Dia.
- Size: 1.8"L x 0.5"Dia.

Includes: One red and one black

Part No.	Description	1	10	100	1000
77691	Binding posts (2)	$1.31	$1.14	$1.10	$1.05

Mini Test Clips



114818

- Two lengths

Includes: One black and one red hooked probe clip

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
114809	1.75" mini test clips ⊕ ✪	$2.19	$1.71	$1.55
114818	3.5" mini test clips	2.09	1.79	1.35

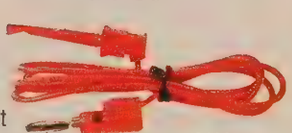
Micro Test Clip



- One piece per package

Part No.	Description	1	10	100
153163	1.6" micro test clip	$1.95	$1.74	$1.38

Mini-Clip to Banana Test Cables



21865

- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- 20 AWG insulated wire • Length: 3.5'

Part No.	Description	1	10	100
21857	Black test cable	$3.95	$3.55	$2.99
21865	Red test cable	3.95	3.49	2.99

Mini-Clip Test Leads



These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100
135299	Mini test leads	$11.49	$10.39	$9.29

Alligator Clip Leads



- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100
10444	Alligator leads	$4.39	$3.95	$3.56

Insulated Alligator Clips



- Color-coded • Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw
- Size: 2.3"L x 0.5"W

Includes: One red and one black clip

Part No.	Description	1	10	100
70991	Alligator clips	$.39	$.36	$.33

Alligator Clips

Quantity Save



248921 256525 248972

- Sold in increments of 2

248921: 1.2"L x 0.3"W **256525**: 1.9"L x 0.2"W

Part No.	Description	2	8	40
248921	Mini clip solder/crimp	$.336	$.30	$.275
256525	Alligator clip, barrel/screw	.45	.38	.35
248972	Red ins. for 256525	.255	.217	.163

BNC Female Connector with 20AWG Lead Wires

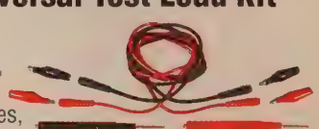


Solder the 20AWG wires onto your protoboard, plug the BNC female connector into your test equipment and you have an instant testing board for varied applications.

- BNC female connector • 7" 20AWG lead wires

Part No.	Cross Ref. No.	1	10	100
256831	CBB-069 ⊕	$6.69	$6.08	$5.58

Universal Test Lead Kit



Includes:
3' black/red cables,
4.5" black/red insulated test probes,
0.8" needle probes,
spade terminals,
2 sets of 4 pieces each: red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516	Universal kit ⊕	$8.95	$7.61	$6.95

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Panel Mount Tip Jacks 1/4" – 32 Thread



Mounts in panels ranging in thickness from 0.063" to 0.375".

- Plating: bright tin • Material: brass
- Insulation: polycarbonate • 10 per package

✪ Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Color	1	10	100
256778	R1-17-BLK ⊕ ✪	Black	$8.75	$7.44	$5.58
263863	R1-17-RED ⊕ ✪	Red	8.59	8.15	7.75

Double Binding Posts – Dual Banana



- Red/black design • Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
125196	Double bind post ⊕ ✪	$4.95	$4.32	$3.99

BNC to Double Binding Posts – Dual Banana



125233

- Red/black design ✪ Blue Part No. = Limited Qty Available

Part No.	Description	1	10	100
125233	BNC-female	$5.95	$5.39	$4.05
99354	BNC-male ⊕ ✪	5.29	4.76	4.28

Protected Banana Style Multimeter Test Probes



- Threaded/pointed test tip
- Black and red
- 18 AWG wire • 42" long
- 2 per package

Part No.	Description	1	10	100
77738	Protected probes ℞	$6.49	$5.85	$5.25

Standard Banana Style Multimeter Test Probes



- Black and red
- 18 AWG wire
- 2 per package • 42" long

Part No.	Description	1	10	100
77746	Std. banana probes ℞	$7.69	$6.95	$6.25

PROBE MASTER Probe Test Leads



174625

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"

174625 Includes:
10 plunger type tips

212222 Includes:
10 pieces; screw-on alligator clips, spade lugs and spring hooks

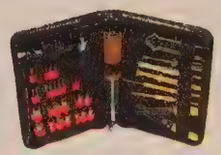


212222

Part No.	Description	1	10	25
174625	Micro tip test leads	$36.35	$34.52	$33.14
212222	Softie test leads	24.79	23.56	22.41

Email us 24/7 at
NewProducts@Jameco.com
with suggestions for products you'd like to see in future catalogs.

40-Piece Electronic Tech Tool Kit



- The kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - Potentiometer alignment tools
  - T10-T25 reversible Torx screwdriver bits
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - 10-pc screwdriver set
  - Extra long 3-claw parts holder
  - IC inserter w/ pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.

LOWER PRICES

Part No.	Description	1	10	25
119183	40-piece tool kit	$21.95	$19.75	$15.80

51-Piece Tech Tool Kit



Essential kit for electronic machine maintenance and repair jobs!

- In addition to the tools listed in the matrix right, the kit includes:
  - 2 nut drivers
  - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.

Part No.	Description	1	5
26681	51-piece tool kit	$99.95	$81.95

57-Pc. Master Electronics Tool Kit

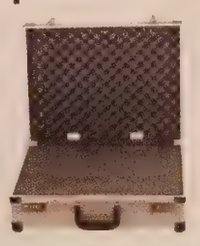


Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- Kit includes:
  - 5" & 6" side cutter
  - 5" & 6" long nose pliers
  - 8" combination pliers
  - 9.5" water pump pliers
  - Testing driver
  - Alignment driver
  - Parts tube
  - 5-piece file set
  - 6" stainless scissors
  - Solder wick
  - PVC insulated tape
  - Oil can
  - Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.

Part No.	Description	1	5
218245	Master electronic tool kit	$130.99	$120.99

Heavy-Duty Tool/Equipment Case



Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.

- Size: 19.0"L x 14.0"W x 6.0"D

Part No.	Description	1	5
261877	Tool/equipment case ℞	$48.59	$36.44

100-Piece Professional Electronics Tool Kit



Kit for field technicians and engineers!

- Kit includes:
  - Computer/polarity circuit tester
  - Mini vacuum cleaner
  - Cassette head cleaning fluid
  - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5
242851	100-piece tool kit	$199.95	$189.95

114-Piece Tech Service Tool Kit



- Kit includes:
  - 40-pc socket pack
  - 6" side cutter
  - 6" long nose pliers
  - 6" slip joint pliers
  - Carpenter hammer
  - Stainless steel spring hook
  - 8" combination pliers
  - 3 piece trimmer set
  - Solder wick
  - 2 removable pallets
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024	114-piece tool kit	$289.99	$259.99

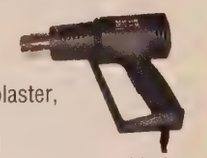
Weller® 250-Watt, 3-Setting Industrial Heat Gun



- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord

Part No.	Product No.	Wt. (lbs.)	1	10
191943	6966C ℞	1.2	$135.85	$121.42

1000-Watt Heat Gun



- Input voltage: 110-120VAC
- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks, and loosen rusted bolts

Part No.	Description	1	6	12
254925	Heat gun ℞	$44.69	$43.16	$38.69

Heat Gun/Stripper

Dual-Setting



76865

217816

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed • Weight: 1.8 lbs. • Size: 9.3"L x 7.0"W

Part No.	Description	1	10	25
76865	Heat gun ⊕	$39.95	$35.95	$31.95
217816	Heat shrink attachment ⊕	1.95	1.66	1.25

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Cutters & Strippers are available online at www.Jameco.com/Tools

5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

78992: 10-30 AWG (screw adjustable)
215889: 10-24 AWG (dial to adjust for wire gauge)


78992 215889

Part No.	Cross Ref. No.	1	10	50	100
78992	HT108R	$3.95	$4.01	$3.39	$2.98
215889	JE-2022CR	3.95	3.49	2.95	2.59

IDEAL 6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

161226: Premium
- 12-20 AWG stranded; 10-18 AWG solid

161234: Premium
- 16-26 AWG stranded; 14-24 AWG solid

161218: Standard
- 16-26 AWG stranded; 14-24 AWG solid • Color: red


161226 161234

Part No.	Product No.	Description	1	10
161226	ID45-215R	Cushioned grips	$18.39	$17.50
161234	ID45-216R	Cushioned grips	17.79	17.06
161218	ID45-121R	Non-cushioned grips	12.39	12.25

Automatic Wire Stripper

- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.



Includes: Wire stopper for desired strip length

Part No.	Description	1	10	50
175098	Strips 8-22 AWGR	$16.95	$15.26	$13.73

Rotary Coax Cable Strippers

2 and 3 Blade

159119 (3 Blade): 2 settings RG58/59/62
- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W • Color: black


159119

159185 (2 Blades): 4 settings RG58/59/62/174
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
- Color: gray

Includes: Hex key wrench for adjusting blade


159185

Part No.	Product No.	1	10	50
159119	HT312B (3 blade)R	$13.95	$11.86	$8.89
159185	HT332D (2 blade)⊕	13.95	12.56	11.30

Hand Tools for Mini-Fit™ Jr.

LOWER PRICES molex


304928


304936

304928: Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	10
304928	63811-1000	Crimp tool	$48.05	$43.12
304936	11-03-0044	Extraction tool	19.99	18.99

Ratcheted Modular Connector Crimping Tool

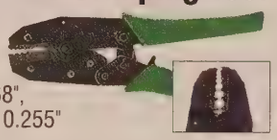
- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.



Part No.	Description	1	10	50
159312	RJ45/11/12R	$23.95	$21.95	$19.95

Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- All steel construction
- Size: 8.5"L x 2.5"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	50
114535	HT-336GR	$26.05	$23.44	$21.10

D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377 & 43369, pg 92 & 100766, pg 103
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	50
159266	HT213R	$12.95	$10.95	$9.89

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	50	100
99443	HT202AR	$9.49	$8.55	$7.69	$6.95

Xcelite® Needle Nose Pliers

217891 (submini needle nose): Serrated jaws
- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas

217998: Smooth jaws
- General purpose for pick-up and wire forming


217891 217998

Part No.	Prod. No.	Description	1	10
217891	L4R	4" mini needle nose	$14.95	$13.69
217998	LN54GR	5" thin long nose	15.05	14.37

Half-Round Long Nose Pliers

- Drop forged steel • Heat treated
- Spring return action • Vinyl grips
- Length: 4.5" • Knurled jaws



Part No.	Description	1	10	50	100
177608	Half-round pliersR	$4.95	$4.49	$3.95	$3.59

4.3" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick • Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade



Part No.	Description	1	10	50	100
35482	Wire cutterR	$5.59	$4.99	$4.55	$3.99

5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Description	1	10	50
161411	Wire cutter⊕	$7.49	$6.74	$6.07

Xcelite® Diagonal Cutters


217921 217904 1536974

Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.
- Flush cutting edge
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort


217867

Part No.	Product No.	Description	1	10
217921	MS54JR	4" oval head-flush	$18.79	$16.94
1536974	S475NJSR	4" relieved head-flush	15.35	14.83
217904	MS549JR	4" tapered head-flush	15.09	14.56
217867	MS545JR	4" slim line tapered head-flush	14.59	12.99

Xcelite® Cutters and Pliers

LOWER PRICES


146712 (6") 146739 (4") 146721 (5")

- Spring returns

146712: Micro series wire cutter – flush; 6"
146739: Diag. wire cutter – semi-flush; 4"
146721: Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712	170MR	$5.89	$5.69	$5.29	$4.99
146739	MS54VR	14.95	14.29	13.59	12.95
146721	MN7776VR	16.95	16.39	15.29	14.25

Xcelite® Shearcutter/Pliers Set

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L



Part No.	Product No.	1	10	50
152055	S2KR	$15.99	$14.99	$13.99

R RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Precision 5-Piece Stainless Steel Pliers Set



- Spring return
- Insulated handles

Includes:
One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73121	5-piece set ♻	0.6	$18.15	$16.32	$14.69

PC Board Drill Bits NEW

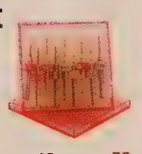
- Shaft diameter: .125"
- Use for drilling holes in glass PC boards



Part No.	Mfr. No.	Size	Dia.	1	10	100
1919537	1/8	1/8	.125"	$1.75	$1.49	$1.25
1919588	31	31	.120"	1.75	1.49	1.25
1919300	32	32	.116"	1.75	1.49	1.25
1919609	33	33	.113"	1.75	1.49	1.25
1919553	35	35	.110"	1.75	1.49	1.25
1919570	38	38	.102"	1.75	1.49	1.25
1919502	45	45	.082"	1.75	1.49	1.25
1919596	46	46	.081"	1.75	1.49	1.25
1919561	48	48	.076"	1.75	1.49	1.25
16580	59	59	.040"	1.75	1.49	1.12
16619	75	75	.021"	1.55	1.32	.99

9-Piece Drill Bit Kit

- Variety of sizes: .014" to .126"
- Shank diameter: .125"
- Each kit will vary in contents of bit sizes



Part No.	Description	1	10	50
131676	9-piece drill bit kit	$9.95	$8.95	$7.95

32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

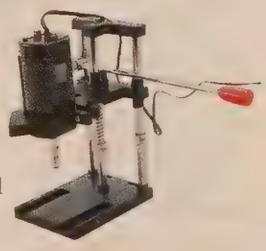


Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64"; 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description	1	10
223829	32-piece security bit set	$11.95	$10.75

Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.

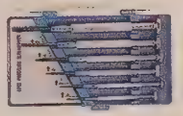


Part No.	Description	Wt. (lbs.)	1	10	25
26702	GTT-103A drill ⊕	0.8	$33.55	$30.18	$26.82
26711	GTT-104 stand	1.8	26.35	23.70	21.06

6-Pc Precision Screwdriver Sets

34041 includes: 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers
34059 includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers

Quantity Save



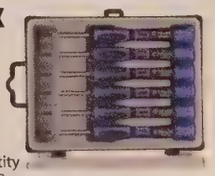
34041

Part No.	Description	1	10	50
34041	Slotted set ⊕	$3.59	$3.05	$2.29
34059	Phillips set ⊕	3.59	3.06	2.30

6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T10 x 50mm Torx hex screwdrivers

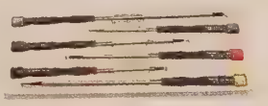
Quantity Save



Part No.	Description	1	5
226106	Precision TORX screwdriver ⊕	$13.59	$10.23

6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L; 0.12"Dia. x 6.6"L; 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L

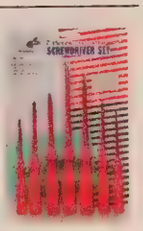


Part No.	Description	1	10	50
99451	6-pc. screwdriver set ⊕	$8.95	$8.06	$7.25

7-Pc Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips

Includes: 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips



Part No.	Description	1	5
261999	Screwdriver set ⊕	$18.69	$17.74

JAMECO Pocket Screwdriver

Phillips & Flat head

- Size: 6"L
- Pen clip for pocket storage

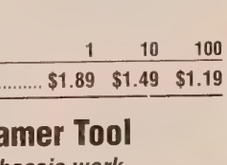


Part No.	Description	1	10	100
127271	Pocket screwdriver	$1.89	$1.49	$1.19

T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

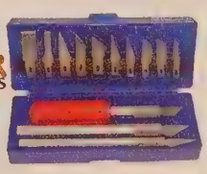


Part No.	Description	1	10	25
151750	T-handle reamer ♻	$7.95	$7.49	$6.95

Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

LOWER PRICES



Includes: 13 types of blades

Part No.	Description	1	10	25
72768	13 blade knife set ⊕	$10.25	$9.73	$8.87

Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 81 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections
- 4.5" long



34585

Part No.	Cross Ref. No.	1	10	25
34585	HSM30 (Modified)	$59.49	$53.54	$47.58
236785	HSR30 (Regular)	30.55	27.40	24.40

Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

175071: Tool with blade
- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H

324014: Tool with blade
- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H



175071 175089

175089: Punch-down blade 110-type terminals

Part No.	Description	1	10
175071	Tool with 66 blade ⊕	$37.29	$33.52
324014	Tool with 110 blade ♻	49.35	38.69
175089	Punch-down blade 110 ⊕	14.95	13.49

Metal Dial Calipers

Choose Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal
- Color: silver

116126



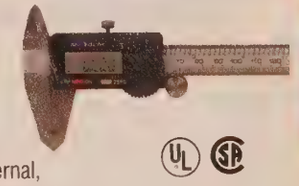
Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116126	Inches (.001 inch) ⊕	$29.95	$26.96	$24.26
684449	Metric/Inches	52.39	44.53	33.40

Digital Display Caliper

Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty

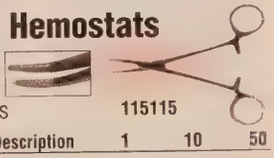


Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 168)

Part No.	Description	1	10	25
127482	Digital disp. caliper ⊕	$69.25	$66.28	$64.62

5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

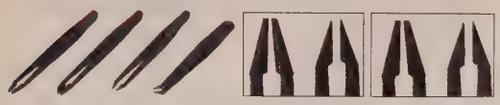


115115

Part No.	Cross Ref. No.	Description	1	10	50
115107	HEMO1	Straight	$3.49	$3.14	$2.83
115115	HEMO2	Curved	3.95	3.56	3.20

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

4-Piece Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10	25
172638	4-piece tweezer set ⊕	$11.95	$10.95	$9.95

4-Piece Steel Tweezer Set

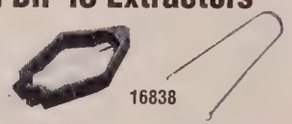


- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
10735	4-piece tweezer set ⊕	$7.95	$6.95	$5.95

PLCC and DIP IC Extractors

- Size: 4.0"L x 2.0"W



Part No.	Product No.	Description	1	10	100
16766	HT103B	PLCC	$3.95	$3.55	$3.19
16838	HT103A	DIP	1.49	1.25	1.09

IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

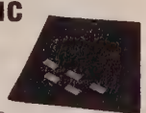


- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic • Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

Part No.	Description	1	10	100
99363	IC straightener	$7.69	$6.94	$6.24

Conductive Anti-Static Foam and Bags



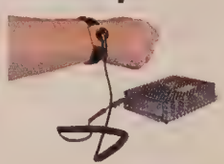
Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

13864: 24.0"L x 12.0"W x 0.25"H

Part No.	Description	1	5
13864	Anti-static foam	$9.29	$8.35
78650	8" x 10" anti-static bags	.69	.59

Protective Coiled Grounding Wrist Strap



- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long
- Color: black

Includes: 1MΩ resistor for added safety

Part No.	Description	1	10	100
34552	Anti-static strap	$6.49	$5.85	$5.29

Precision 5 Diopter Magnifying Lamp



The arm extends to 40", is adjustable to any direction or angle, and has a 5 diopter. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens • Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456	Magnifying lamp	$109.95	$98.95	$88.95

3X Magnifying Lamps



- 45" extension arm
- Supplied with 22-watt circuline tube
- Extra strong, all-metal mounting base with electrical outlet
- New wire clip design permits easy installation
- Metal bulb holder for extra protection
- Power reqirement: 110VAC/60Hz
- 3-diopter lens • Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829	Black lamp	$59.95	$53.95	$49.95
149981	White lamp	59.95	53.95	49.95

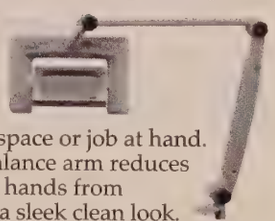
Standard Adjustable 3X Magnifying Lamp



- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens • Weight: 2.9 lbs.

Part No.	Description	1	10	25
22710	Magnifying lamp	$26.49	$25.19	$23.89

3X, 3-Bulb Magnifying Lamp



Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- Adjustable rectangular 3-diopter lens
- 47" long arm • 2 on/off buttons
- Color: beige • UL listed • Weight: 8.15 lbs.

Part No.	Description	1	10	25
217517	Adj. magnifying lamp	$79.95	$74.95	$69.95

Weller® 40-Watt Soldering Station



- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip and manual

Part No.	Product No.	1	10
146595	WLC100	$49.35	$47.25

Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23



Part No.	Prod. No.	Description	1	10
146608	ST1	Screwdriver tip 1/16"	$5.45	$4.86
146616	ST3	Screwdriver tip 1/8"	5.45	4.86
192145	ST6	Screwdriver tip .031"	4.99	4.79
146624	ST7	Conical tip 1/32"	4.99	4.26

Weller® 42-Watt Controlled-Output Soldering Station



- Complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components • 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552	WTCP	Solder station	$145.95	$138.65
192161	TC201T	Replac. iron	74.65	71.95
192170	PTA6	.062" screwdriver tip (600°F)	5.75	5.46
192188	PTA7	.062" screwdriver tip (700°F)	5.99	5.47
192196	PTA8	.062" screwdriver tip (800°F)	5.69	5.15

60-Watt Analog Display Soldering Station



Maintains a steady temp. using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.

Includes: One 1/16" tip (P/N 35115, pg 192)

236460: Replacement sponge

Part No.	Product No.	1	10	25
236110	168-3C	$89.95	$79.95	$72.95
236460	78-744615	2.99	2.69	2.49

SMD Tweezer Iron



- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F • 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.



Includes: 0.095" tip

Part No.	Description	1	10	25
168410	Tweezer iron	$59.95	$50.95	$40.11
168583	Tip .078"	11.95	10.79	9.69
168591	Tip .590"	12.95	11.69	10.49

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

SMD Rework Station



- High-performance, inexpensive, versatile
- Adjustable temp.: 250-450°C (482-842°F)
- Long-life ceramic heating element
- Rapid heat-up and recovery
- Thermocouple sensor for stable temperature • Size: 7.4"L x 5.0"W x 3.3"H
- 40W station, 25W ceramic element • Weight: 2.6 lbs

Includes: Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	10	25
224629	Rework station	$89.95	$80.99	$72.85
168583	.078" tip	11.95	10.79	9.69
168591	.590" tip	12.95	11.69	10.49

50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.



- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

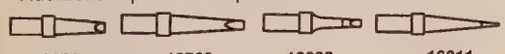
Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Product No.	Description	1	10
217461	WES51	Analog	$125.39	$121.95
233533	WESD51	Digital	158.95	150.99

Weller® Soldering Tips

Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Additional tips can be special ordered



16774 16782 16803 16811

Part No.	Prod. No.	Description	1	10
16774	ETA	Screwdriver 1/16"	$6.95	$6.25
16782	ETJ	Long screwdriver 1/32"	6.95	6.25
16803	ETR	Narrow screwdriver 1/16"	5.95	5.65
16811	ETS	Long conical 1/64"	6.95	6.39

16 to 30-Watt Variable Soldering Iron & Stand



116572



134631

36329

116572: Length: 7.5"

36329:

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" diameter

Includes: Sponge

Part No.	Description	1	10	100
116572	258VL soldering iron	$17.95	$16.29	$14.75
36329	Soldering stand	4.95	4.46	4.01
134631	Sponge (for P/N 36329)	2.99	2.69	2.49

Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.



- 120VAC; 6' cord • 25-watt power consumption
- Interchangeable tips (pg 192) • UL listed
- Length: 8.0" • One-year warranty

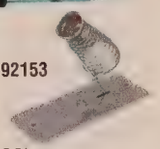
Includes: 1.6mm conical tip

Part No.	Product No.	1	10	25
129040	200GX-25W	$13.15	$12.71	$11.41

Weller® High-Quality 25-Watt & 35-Watt Soldering Irons



170587



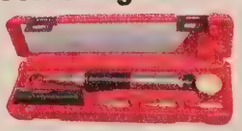
192153

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"
- 120VAC @ 60Hz

Includes: Power cord & ST3 tip (pg 190)

Part No.	Product No.	Description	1	10
170587	WP25	25W solder iron	$35.65	$34.43
192102	WP35	35W solder iron	46.19	44.65
192153	PH25	Solder iron stand	18.19	17.79

Weller® Cordless Soldering Iron Kit



- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off • Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Product No.	Description	1	5
152207	PSI-100K	Tool kit	$81.99	$78.79

Weller® Pro Cordless Coldheat Soldering Iron



Using the patented Coldheat™ system, the Weller Pro Cordless melts solder instantly and is cool to the touch in just seconds. The Weller Pro has the power industrial professionals need to tin wire as large as 12AWG or join wires from 18-25AWG, with an average yield of 700 solder joints per 5 AA alkaline batteries.

- Polycarbonate body • High/low/off power switch
- Bright white LED light • Red "in use" indicator light
- Includes carrying case and CHT3 61° angle chisel tip

Requires: 5 AA alkaline batteries

Part No.	Product No.	Description	1	5
684705	CHT100	Cordless soldering iron	$41.59	$41.10

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

Electric & Manual Desolder Pumps



19255



305226



19166

- Easily disassembled for cleaning
- Replacement tips available

19255:

- UL listed • One-hand operation
- Size: 10.5"L x1.0"Dia.

19166: Size: 7.8"L x 0.8"Dia.

305226: Size: 13"L x 1.0"Dia.

✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
19255	Electric desolder pump	$26.95	$23.95
19166	Manual desolder pump	4.95	4.49
305226	Manual desolder pump ✪	14.75	13.99
19262	1 tip for 19255 ⊕	4.95	4.49
22091	2 tips for 19166 ⊕	4.49	3.37
307782	1 tip for 305226	2.99	2.24

35-Watt Soldering Iron



208987

- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1"
- 110-120VAC

Part No.	Description	1	10	100
208987	35W soldering iron	$3.49	$3.04	$2.77
209075	Solder roll, 8mm (.031")	19.95	17.95	16.94

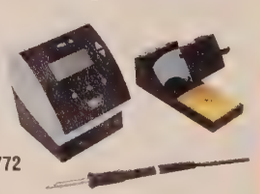
Velleman Butane Powered Cordless Soldering Iron



- Cordless, simple operation
- Built-in on-off switch
- Length: 8.5"
- Can be used as a torch or hot blower
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load

Part No.	Product No.	Description	1	10
645520	GASIRON2	Soldering iron	$33.95	$29.95

Weller® Digital Soldering Stations



684772

684772:

- New WP80 soldering pencil offers 80 watts of power with short tip-to-grip (52mm)
- 80W of power
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WDH10 soldering stand • Includes LTB tip
- Size: 15.4"L x 10.2"W x 5.2"H • Weight: 8.2 lbs.

684781:

- Extensive special functions menu allows you to use setback, lockout, standby, auto-off time and more
- Heating element is contained in pencil rather than tip
- Micro pencil with short tip-to-grip (37mm) puts you close to the work • 85W of power
- Iron stand has adjustable tilt angle in 4 positions ranging from 30° to 80° • Includes NT1 tip
- Uses WMP soldering pencil and WDH20 iron stand
- Size: 15.9"L x 10.9"W x 5.8"H • Weight: 7.5 lbs.

Part No.	Product No.	Description	1	5
684772	WD1002	80W	$287.69	$278.09
684781	WD1001	85W	287.69	278.09

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Soldering/Desoldering Stations & Accessories

Color Code Legend: New Sale Lower$ QtySave

Additional Soldering & Desoldering Stations are available online at www.Jameco.com/Soldering

60-Watt Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at ±6°F
- Electronic temperature control from 392° to 878°F
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

ESD Safe!



Includes: One 1/16" tip (P/N 35115 – below)

Part No.	Product No.	Description	1	10	25
236101	XY9-60D/ESD	Digital soldering station – ESD safe	$109.95	$99.95	$89.95
219627	XY9-60A	Analog soldering station	109.95	98.95	87.95
168401	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	74.95	67.46	60.71
168583	46-060102	Tip .078" for P/N 168401	11.95	10.79	9.69
168591	46-060115	Tip .590" for P/N 168401	12.95	11.69	10.49
236460	78-744615	Replacement sponge for both stations	2.99	2.69	2.49

60-Watt Desoldering & Soldering Station

Special 5% Bundle Savings
Complete ISO 9000 digital station –
P/N 236101 & 125508
Sold separately $409.90
Combined: P/N 207263 $388.95



- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes
- Size: 9.2"L x 7.2"W x 3.6"H • Weight: 13.1 lbs.

Includes: XYD12 tip and solder holder

- **207271** For use w/ models 136, 136ESD, 137ESD & 988

Part No.	Product No.	Description	1	10	25
125508	968	Desoldering station	$299.95	$269.99	$242.99
207271	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221	D1A60A	Replacement desoldering iron	74.95	63.71	58.20
168583	46-060102	Tip .078" for P/N 207271	11.95	10.79	9.69
168591	46-060115	Tip .590" for P/N 207271	12.95	11.69	10.49
236460	78-744615	Replacement sponge	2.99	2.69	2.49

Replacement Sponges for Legacy Models

Part No.	Product No.	For Station	1	10	100
134640	SP815	168-3C	$2.99	$2.55	$1.95
134631	SP715	XY-60D, XY-379 & XYT379-C	2.99	2.69	2.49

45-Watt Analog Display Soldering Station

Grounded Soldering Tip

- 500°F to 850°F • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.



Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

Part No.	Product No.	Description	1	10	25
229673	XYT379-C	45-Watt soldering station	$59.95	$53.95	$48.95
156814	XYB01	Sharp conical chisel 1/32" tip	5.75	5.53	4.85
134631	SP715	Replacement sponge	2.99	2.69	2.49

Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.



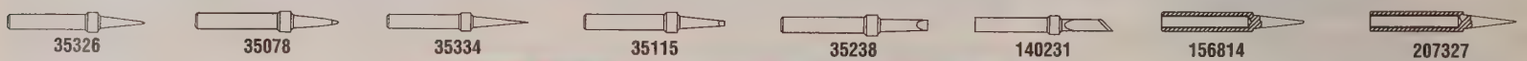
- 25W, 40W & 60W
- 120VAC; 6' cord with 3-prong plug • Length: 9"

Tips for 224611/224602: **226000** chisel; **226018** conical

Tips for 195223: **226026** chisel; **226034** conical

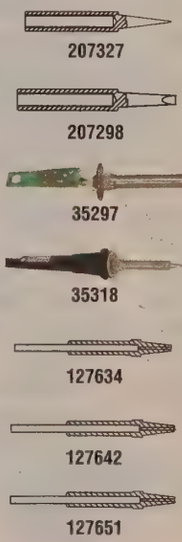
Part No.	Product No.	1	10	25
224611	200PHG-25W	$8.35	$7.51	$6.77
224602	200PHG-40W	9.85	8.87	7.98
195223	200PHG-60W	14.99	13.49	12.99
226000	44-240517 tip	.95	.81	.79
226018	44-240513 tip	1.05	.96	.86
226026	44-240617 tip	1.95	1.79	1.59
226034	44-240603 tip	1.95	1.79	1.59

Tips & Replacement Parts for XYTronic Soldering and Desoldering Products



For XYTronic Model Numbers (* Legacy Models)

Part No.	Cross Ref. No.	Description	258VL	136ESD *	168 *	200HGX, 200PHG	379 * /379-C	AESD * /DESD	XY1960A/	960D *	968	999SDA *	JSI258 *	168-3C	Pricing 1	10	25
35326	XY401	Soldering tip - conical bevel 1/32"	✓		✓	✓		✓	✓			✓	✓	✓	$4.49	$3.95	$3.65
35078	XY402	Soldering tip - semi-chisel 1/32"	✓		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
35334	XY403	Soldering tip - conical sharp 1/64"	✓		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
35115	XY404	Soldering tip - conical chisel 1/16"	✓		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
35238	XY405	Soldering tip - semi-chisel wide 1/8"	✓		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
140231	XY430	Soldering tip - SMD flat pack 7/32"	✓		✓	✓		✓	✓			✓	✓	✓	8.95	7.95	7.25
156814	XYB01	Soldering tip - sharp conical chisel 1/32"		✓			✓								5.75	5.53	4.85
207327	XYB03	Soldering tip - conical sharp 1/64"		✓			✓								5.45	4.94	4.35
207298	XYB05	Soldering tip - semi-wide chisel 1/8"		✓			✓								4.95	4.49	3.95
35297	XY37	Heating element - (nichrome)			✓	✓		✓				✓		✓	20.95	18.95	16.95
35318	XY48	Assembly - 60W w/ nichrome heater			✓	✓		✓				✓		✓	30.95	27.95	24.95
127634	XYD10	Desoldering tip - 1.0mm (.0394")								✓	✓	✓			8.95	7.95	7.25
127642	XYD12	Desoldering tip - 1.2mm (.0472")								✓	✓	✓			8.95	7.95	7.25
127651	XYD15	Desoldering tip - 1.5mm (.0586")								✓	✓	✓			9.05	8.03	7.32



Soldering Kit

Includes: 100W soldering soldering gun with extra tip, 30W soldering iron, manual desoldering pump, mini third-hand board/component holder, lead solder, and soldering aid tool.



Part No.	Description	Size	Weight (lbs.)	Price
684596	GSR-600A	13.8"L x 11"W x 3"H	4.0	$40.69

Vacuum Pen Tools

- ESD safe body
- Picks up components with weight of 1.1 lbs. or less



Part No.	Description	1	10	25
207239	Handivac tool (4 tips and cups)	$24.19	$21.77	$19.59
207247	Pen vac tool (6 tips and cups/aluminum body)	41.75	37.68	33.54

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Test/Tools

Additional Soldering Accessories are available online at www.Jameco.com/Soldering

Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6" • Wt.: 2.0 lbs.

Solder not included



Part No.	Description	1	10	100
169551	Spool & iron stand	$16.95	$15.29	$13.75

Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6" • Weight: 1.6 lbs.

Solder not included



Part No.	Description	1	10	100
141761	Solder spool stand ♻	$8.95	$7.95	$6.95

Solder Bars

- Used with solder pots • Size: 13"L x 0.9"Dia.

176057: 60/40
170465: 63/37
668406: 99.3% tin, 0.7% copper
668414: 96.3% tin, 3.2% silver, 0.5% copper



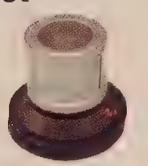
170465

Part No.	Description	Wt. (lbs.)	1	10	25
176057	60/40	1.1	$8.75	$8.31	$7.89
170465	63/37 ♻	1.8	14.49	13.77	13.09
668406	99.3/.7 ♻	2.2	36.49	35.17	33.41
668414	96.3/3.2/.5 ♻	2.2	81.49	74.03	66.64

300-Watt Solder Pot

Temperature Regulated Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057 or 170465, above
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty

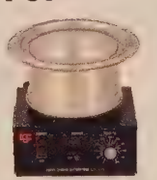


Part No.	Description	1	10	25
160304	300W solder pot ♻	$71.39	$67.85	$64.46

600-Watt Solder Pot

Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 or 170465, above
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.

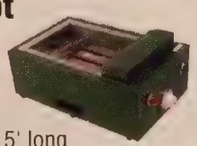


Includes: Skimmer and removable dross tray

Part No.	Description	1	10
172276	600W solder pot ♻	$227.95	$179.06

2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 or 170465, above
- 3 conductor pigtail power cord: 5' long
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs. • One-year warranty



Part No.	Description	1	5
149876	2000 watt solder pot	$399.95	$359.95

Fume Extractor

Designed to remove solder flux fumes and other workplace fumes from the operator's breathing zone. Uses activated-carbon filter and a high efficiency fan. Air is filtered, cleaned, and returned to the workplace.



- Input voltage: 110 – 120V
- Power: 20W • Arm length: 29"
- Fan specifications: 50dB S/N ratio; 87cfn
- Size: 8.3"H x 8.3"W x 5.3"D • Weight: 3.3 lbs.

Part No.	Product No.	1	10
667420	GS-630A	$67.59	$63.95
672579	GS-628-08 (carbon filter 3pk.)	17.39	13.04

Combination 42-Watt Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D
- Weight: 5.2 lbs.



Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10
183169	456DLX ♻	$89.95	$86.29

Fume Extractor

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air
- Static ground jack • Fuse protected
- Air flow: 115 CFM • Noise: 49dB fan
- 20VAC, 60Hz, 22 watt
- Aerodynamic hood design for effective removal of solder fumes
- Black anodized aluminum case
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty



Includes: Detachable power cord

Part No.	Description	1	10	25
120150	Fume extractor ♻	$58.95	$52.95	$47.79
127183	Replace. filters (2/pk) ♻	12.95	11.66	10.49

Weller® Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.

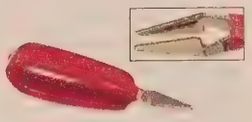


- Voltage: 120VAC
- Sound level: 45-50dB
- Air consumption: 87-107CFM • UL/CUL listed
- Power consumption: 20W • ESD safe
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H • Weight: 4.2 lbs.

Part No.	Product No.	1	5
684810	WSA350	$48.89	$45.99
684828	WSA350F (carbon filter)	7.15	6.79

Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No.	Mfr. Part No.	1	10	25
159126	HT156 ⊕	$3.05	$2.71	$2.45

TECHSPRAY Heat Sink Compound 4-oz.

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.

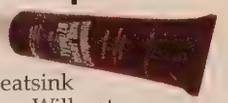


Part No.	Product No.	1	10
169252	1978DP ♻	$22.09	$21.19

GC ELECTRONICS Heatsink Compounds

Silicone (Z9)

Industry standard zinc oxide-filled silicone heatsink grease for most applications. Will not soften at elevated temperatures, dry out or harden. Meets MIL SPEC C-47113



615321

Part No.	Prod. No.	Description	1	10	100
615304	10-8106	1 lb. can	$30.49	$28.37	$25.99
615312	10-8108	6.5 gram tube	2.29	2.13	1.87
615321	10-8109	1 fl. oz. tube	6.35	5.89	5.17

Rosin Core Solder Rolls and Pocket Packs



141778



170457



32117

Part No.	Manufacturer	% Composition Tin	Lead	Silver	Copper	Dia. (in.)	Wt. (lbs.)	Pricing 1	10	50
668078	— ♻	99.3	—	—	0.7	0.04	0.6	$10.79	$9.89	$8.91
668262	— ♻	96.3	—	3.2	0.5	0.04	0.6	18.49	17.55	16.67
668271	— ♻	96.5	—	3.5	—	0.04	0.6	24.75	20.74	19.78
668297	— ♻	96.3	—	3.2	0.5	0.04	1.1	33.39	32.99	32.33
668318	— ♻	96.5	—	3.5	—	0.04	1.1	37.25	36.13	35.05
141786	Super	60	40	0	—	0.031	1.10	13.65	12.42	12.00
141778	Super	60	40	0	—	0.031	2.20	22.29	21.59	20.87
170457	Golden ♻	60	40	0	—	0.031	0.06	1.39	1.25	1.05
32117	Kester	60	40	0	—	0.031	1.00	18.99	16.99	15.31
151474	Kester*	63	37	0	—	0.031	1.00	23.69	21.74	20.12

* Organic core

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Heat Sink Compounds

Thermally loaded silicone-based grease that improves transfer of energy across the metal-to-metal interface between transistor or rectifier and heat sink.

- Color: opaque white



167249



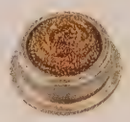
236823

Part No.	Mfr. Part No.	1	10	100
167249	THM250 (2 oz.)	$9.95	$8.96	$8.06
236823	54114 (1 oz.) ≋	4.95	4.21	3.15

Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability


156777

Part No.	Description	1	10	50
156777	Tip cleaner & stand ≋	$4.95	$4.49	$4.05
160004	Metal wool replacement ≋	2.79	2.49	2.29

TEGHSPRAY No-Clean Desolder Braids

Meets all of the most stringent soldering standards for world-wide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.

- Length: 5'



139951



124126

Part No.	Description	1	10	100
139951	.030"W desolder braid ≋	$2.99	$2.69	$2.29
124126	.055"W desolder braid ≋	3.05	2.90	2.74
124118	.075"W desolder braid ≋	2.95	2.65	2.34

TEGHSPRAY ProWick® Desolder Braids

Pure Rosin

Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux, which cleans connections thoroughly during desoldering to insure maximum solderability. The thin coating of flux also provides dependable, long lasting protection from oxidation.

- Length: 5'



263695

Part No.	Product No.	1	10	100
263695	1803-5F (0.075"W) ≋	$2.45	$2.25	$2.04
263599	1804-5F (0.098"W) ≋	2.39	2.04	1.97

5' Desoldering Braids

- Easy-to-use, handy dispenser
- Braided copper with flux



41100

✪ Blue Part No. = Limited Quantity Available

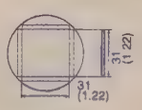
Part No.	Description	1	10	100
41081	.079"W braid (5') ⊕ ✪	$1.75	$1.47	$1.10
41100	.098"W braid (5') ≋	1.59	1.32	1.18
153461	.120"W braid (5') ✪	1.59	1.39	1.25

Hot Air SMD Rework Station with Digital Display

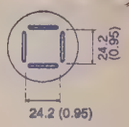
- Incorporates a US made pump – the largest in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- 310W nichrome heating element
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Hot air temperature range: 100°C - 385°C (212°F - 725°F)
- 25W diaphragm pump • Adjustable air-flow
- Size: 7.4"W x 9.6"D x 5.0"H • Weight: 10.8 lbs.

Includes: Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895 and 262908)

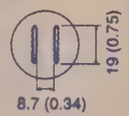




262967



262844



262941

Part No.	Product No.	Description	1	5
262705	850D ≋	Hot air SMD rework station with 4 focus hood tips	$395.05	$375.25
262810	A1135B ≋	Focus hood tip, PLCC 17.5 x 17.5	34.95	33.20
262836	A1137B ≋	Focus hood tip, PLCC 30 x 30	48.95	47.32
262967	A1138B ≋	Focus hood tip, PLCC 30 x 30	48.95	44.05
262895	A1125B ≋	Focus hood tip, QFP 10 x 10	34.95	26.21
262908	A1126B ≋	Focus hood tip, QFP 14 x 14	34.95	33.25
262772	A1128B ≋	Focus hood tip, QFP 14 x 20	34.95	33.20
262916	A1127B ≋	Focus hood tip, QFP 17.5 x 17.5	34.95	26.21
262852	A1261B ≋	Focus hood tip, QFP 20 x 20	49.95	37.46
262844	A1182B ≋	Focus hood tip, BQFP 24 x 24	49.95	48.29
262801	A1129B ≋	Focus hood tip, QFP 28 x 28	49.49	46.99
262887	A1265B ≋	Focus hood tip, QFP 32 x 32	79.95	75.95
262932	A1258B ≋	Focus hood tip, SOP 7.6 x 12.7	34.95	33.25
262941	A1260B ≋	Focus hood tip, SOP 8.6 x 18	34.95	33.25
262975	A1259B ≋	Focus hood tip, SOP 13 x 28	49.95	48.29

PANAVISE PV Jr. Vise



- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- The vise neck tilts, turns and rotates
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs. • One-year warranty

Part No.	Description	1	10
134439	Jr. vise w/ mountable base	$23.75	$23.16

PANAVISE Vacuum Vise



- Patented "split ball" feature tilts/turns/rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs. • One-year warranty

Part No.	Product No.	1	10
27131	M381	$55.95	$53.25

Commercial Customers

Open an account with us to consolidate your monthly billing and save time. 1-800-831-4242

PANAVISE Electronic Work Center



- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No.	Description	1	5	10
27060	Electronic center	$77.89	$73.05	$70.62

Third Hand Tools


681002

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: 0.7 lbs.

681002: With soldering holder and sponge

Part No.	Description	1	10	50
26690	Third hand	$5.95	$5.35	$4.79
681002	Third hand	8.75	7.89	7.15

Clamp Vise



- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W
- Weight: 2.1 lbs.

Part No.	Description	1	10
127167	Clamp vise ⊕	$20.79	$19.71

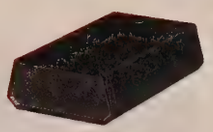
≋ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Enclosures are available on line at www.Jameco.com/Proto

SERPAC Electronic Enclosures

Enclosures

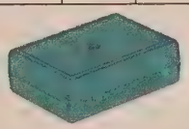
A Series — with PCB Boss Mounts



- 4-piece design
- Interchangeable end panel
- 4-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
373309	A-20-BK	Black	None	4.25 x 2.60 x 0.88	$5.55	$4.37	$4.19
373333	A-21-BK	Black	None	4.25 x 2.60 x 1.12	5.65	4.50	4.15
373368	A-27-BK	Black	None	5.31 x 3.35 x 1.50	8.35	8.29	6.22
373456	A-42-BK	Black	None	7.12 x 5.00 x 1.62	13.09	10.30	9.83
373608	A-42-9V-BK	Black	1-9V	7.12 x 5.00 x 1.62	14.65	11.55	10.99

C Series — with Pinch-Fit for PCBs

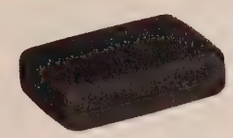


- Simple 2-piece design
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	$2.75	$2.18	$1.94
694541	C-4-TR-GY	Gray*	2.13 x 1.38 x 0.58	5.79	4.58	3.44
675358	C-6-BK	Black	2.26 x 1.61 x 0.75	3.35	2.94	2.61
694559	C-6-TR-GR	Green*	2.26 x 1.61 x 0.75	4.65	3.68	3.34
675366	C-8-BK	Black	2.40 x 1.85 x 0.93	3.29	2.91	2.58
694567	C-8-TR-RD	Red*	2.40 x 1.85 x 0.93	4.65	3.68	3.34
675374	C-10-BK	Black	3.25 x 2.30 x 0.80	2.95	2.36	2.24
694575	C-10-TR-BL	Blue*	3.25 x 2.30 x 0.80	5.05	4.99	4.79
675382	C-12-BK	Black	3.75 x 2.40 x 1.00	4.19	3.29	2.47
694612	C-28-BK	Black	5.00 x 1.85 x 1.00	4.15	3.38	2.94

* Translucent

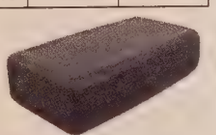
CH Series — Single Screw Assembled



- Simple 2-piece design
- Insert area for customized I-plate

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
675391	CH-4-BK	Black	2.27 x 1.52 x 0.59	$3.15	$2.65	$2.39
675403	CH-6-BK	Black	2.39 x 1.74 x 0.76	3.25	2.66	2.05
675411	CH-8-BK	Black	2.58 x 2.02 x 0.93	3.19	2.79	2.54

H Series — Handheld with Built-in Battery Holder



- Ergonomic handheld design
- 5-insert areas for customized I-plates

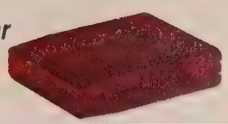
Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
374395	H-45-BK	Black	None	3.90 x 2.20 x 0.94	$6.89	$5.82	$5.50
374483	H-45-AAA-BK	Black	2-AAA	3.90 x 2.20 x 0.94	7.79	6.80	6.45
374424	H-65-BK	Black	None	4.94 x 2.75 x 0.94	7.35	6.09	4.88
694621	H-65-TR-GY	Gray*	None	4.94 x 2.75 x 0.94	12.69	11.45	10.21
374512	H-65-AA-BK	Black	2-AA	4.94 x 2.75 x 0.94	7.55	6.70	6.25
374715	H-65-AA-TR-BL	Blue*	2-AA	4.94 x 2.75 x 0.94	14.35	11.28	10.75
374723	H-65-AA-TR-GR	Green*	2-AA	4.94 x 2.75 x 0.94	14.35	11.96	8.97
374635	H-65-9V-BK	Black	1-9V	4.94 x 2.75 x 0.94	7.35	6.39	5.84
374758	H-65-9V-TR-BL	Blue*	1-9V	4.94 x 2.75 x 0.94	13.09	10.47	10.39
374774	H-65-9V-TR-RD	Red*	1-9V	4.94 x 2.75 x 0.94	14.05	11.73	8.80
675323	H-67-BK	Black	None	4.94 x 2.75 x 1.28	6.85	5.99	5.79
374547	H-67-AA-BK	Black	2-AA	4.94 x 2.75 x 1.28	8.25	6.77	6.28
374942	H-67-9V-BK	Black	1-9V	4.94 x 2.75 x 1.28	7.79	6.69	5.71
374459	H-75-BK	Black	None	7.19 x 3.65 x 1.26	8.35	7.99	7.55
374601	H-75-4AA-BK	Black	4-AA	7.20 x 3.65 x 1.20	12.55	9.97	9.36

* Translucent

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 204.

M Series — Handheld with Built-in Battery Holder

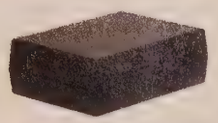


- Streamlined handheld design
- 5-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
675420	M-4-BK	Black	2.80 x 2.20 x 0.70	$6.29	$5.30	$3.98
694663	M-4-TR-RD	Red*	2.80 x 2.20 x 0.70	10.89	9.45	8.02
694671	M-4-TR-BL	Blue*	2.80 x 2.20 x 0.70	10.89	7.78	6.59
675438	M-6-BK	Black	4.15 x 2.40 x 0.85	7.65	6.79	6.19
694815	M-6-TR-GY	Gray*	4.15 x 2.40 x 0.85	13.55	9.77	9.07
694807	M-6-TR-GR	Green*	4.15 x 2.40 x 0.85	13.55	10.75	10.03
675446	M-8-BK	Black	6.97 x 2.40 x 0.85	9.05	7.18	7.07

* Translucent

S Series — Two-piece Standard Enclosures

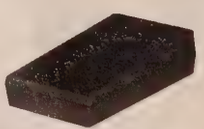


- 2-piece design
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
675454	110-I-BK †	Black	None	3.61 x 2.27 x 1.01	$3.45	$2.71	$2.63
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	3.95	3.12	2.95
675471	031-BK	Black	None	4.38 x 3.25 x 0.91	4.75	3.72	3.65
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	5.15	4.05	3.99
675569	211-BK	Black	1-9V	4.10 x 2.60 x 1.51	4.69	4.45	3.34
675577	231-BK	Black	1-9V	4.38 x 3.25 x 1.51	6.05	4.75	4.30
675585	231-I-BK †	Black	1-9V	4.38 x 3.25 x 1.51	6.05	4.75	4.46
675497	133-BK	Black	None	4.38 x 3.25 x 2.51	5.79	4.55	4.50
675500	151-BK	Black	None	5.63 x 3.25 x 1.51	5.99	4.69	4.59
675593	251-BK	Black	1-9V	5.63 x 3.25 x 1.51	8.09	6.43	5.75
675518	153-BK	Black	None	5.63 x 3.25 x 2.51	7.55	6.27	5.11
675526	171-BK	Black	None	6.88 x 4.88 x 1.51	8.75	6.79	6.69
675534	172-BK	Black	None	6.88 x 4.88 x 2.01	8.09	7.70	7.31
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	9.75	7.68	7.53
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	13.79	10.85	10.57

† Insert on top is recessed 0.015" on all models designated with an "I"

SL Series — Sloped Top Enclosures



- Slanted top
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
694698	05-SW-BK	Black	5.63 x 3.25 x 0.91	$6.79	$5.64	$4.79
675606	15-S-BK	Black	5.63 x 3.25 x 1.51	5.99	4.70	4.27
694680	27-S-BK	Black	6.88 x 4.88 x 2.49	9.95	8.22	7.81

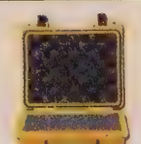
CA Series — Keychain Style w/ Battery Compartment



- Ergonomic design
- 0-4 button configuration
- Designed to hold a 20mm coin cell battery
- Assembles with two or three screws

Part No.	Product No.	Buttons	Color	Size (L"xW"xH")	1	10	50
694583	CA-4, 2-BK	2	Black	2.48 x 1.73 x 0.60	$5.19	$4.17	$3.58
694591	CA-4, 3-BK	3	Black	2.48 x 1.73 x 0.60	4.99	3.18	2.39
694604	CA-4, 4-BK	4	Black	2.48 x 1.73 x 0.60	4.99	3.89	2.92

R Series — Waterproof Cases



- Lifetime guarantee
- Airtight and UV protected
- Waterproof to 30ft, dustproof, corrosion proof
- Features auto pressure purge valve, secure lock holes, nut & bolt security, and foam-filled

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
675614	R-120F	Black	7.6 x 5.0 x 2.2	$16.15	$14.81	$14.01
675622	R-300F	Black	9.59 x 7.42 x 3.98	30.35	24.70	23.87
675631	R-520F	Black	12.8 x 9.0 x 6.0	49.75	45.99	44.50
675649	R-720F	Black	18.3 x 13.2 x 6.72	88.89	76.61	73.87

Please Note: Images used are representative. Color and shapes vary by model.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204

Enclosures

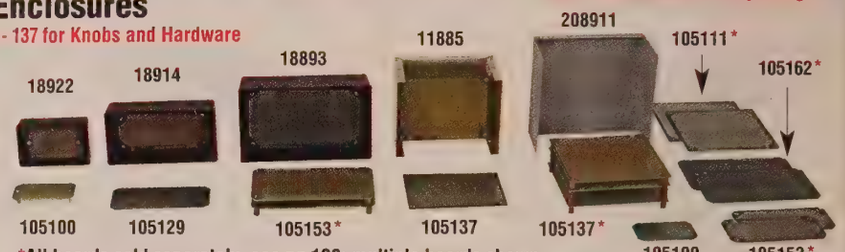
Call for additional OEM pricing.

See pages 136 - 137 for Knobs and Hardware

The prototype builder boards on pg 198 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 198 (P/N 106551).

Board description: Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

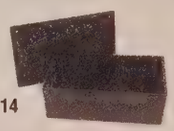
JAMECO EXCLUSIVE



*All boards sold separately, see pg 198; multiple boards shown

ABS Plastic Enclosures

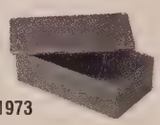
Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions.



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	$3.15	$2.84	$2.55	$2.30
18914	H2853	4.9" x 2.5" x 1.5"	3.69	3.32	2.99	2.69
18893	H2851	6.0" x 3.5" x 1.9"	4.79	4.31	3.88	3.49
18906	H2852	7.5" x 4.3" x 2.3"	7.25	6.51	5.86	5.27

Die-Cast Aluminum Enclosures

Ideal for RF circuits. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11957	B5002⊕	3.9" x 2.0" x 1.0"	$5.95	$5.39	$4.85	$4.35
11965	B5004	4.7" x 2.4" x 1.6"	8.99	8.10	7.29	6.56
11973	B5006⊕	7.5" x 4.3" x 2.4"	16.75	15.08	13.56	12.21

Aluminum Enclosures

Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11870	B2300	4.0" x 2.0" x 2.8"	$6.85	$6.17	$4.93	$3.69
11885	B2320⊕	5.0" x 4.0" x 3.0"	9.55	8.80	8.30	7.82

Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

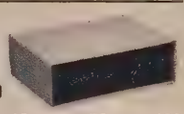
Quantity Save



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
208901	B2741A⊕	4.0" x 3.3" x 2.2"	$6.49	$5.89	$5.29	$3.96
208911	B2743A	5.9" x 5.3" x 3.0"	9.09	8.20	7.40	6.71
208929	B2744A	7.3" x 6.3" x 2.8"	10.15	9.14	7.31	6.42
209350	B2746A	6.3" x 7.8" x 2.5"	13.35	12.02	9.61	7.20
209358	B2747A	7.5" x 9.8" x 3.2"	17.99	16.19	12.95	9.70

ABS Heavy-Duty Instrument Cases

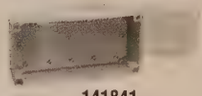
P/N 18877 includes ventilation and speaker sound slots. • Color: gray



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	$7.89	$7.10	$6.39	$5.75
18877	H2507	10.0" x 7.5" x 3.1"	9.15	8.15	7.43	6.68

ABS Enclosures w/ Clear Tops

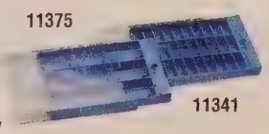
Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
141832	203C1	4.6" x 3.2" x 1.8"	$9.99	$8.99	$7.99	$6.99
141841	203D1	6.5" x 3.4" x 2.2"	11.15	10.04	9.06	8.12
141859	203F1	7.3" x 5.7" x 3.0"	11.99	10.99	9.99	8.99

Bug Boxes

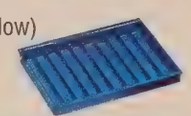
- Anti-static plastic
- Fits in bug cage (P/N 11332, below)
- Box size: 4.9"L x 3.3"W x 0.6"H
- P/N 11341: stores sixty 8-pin or thirty 16-pin DIPs
- P/N 11375: designed to store all types of components



Part No.	Description	1	10	100
11341	30 compartments	$5.95	$5.49	$4.85
11375	3 compart./3 vertical & 3 horizontal dividers	4.29	3.95	3.65

Bug Tray

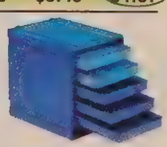
- Fits in bug cage (P/N 11332, below)
- 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H



Part No.	Description	1	10	100
11800	Divided bug tray	$6.39	$5.43	$4.07

Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Case size: 5.0"L x 3.9"W x 5.1"H
- Color: blue



Boxes/Trays not included

Part No.	Description	1	10	100
11332	Bug cage	$8.95	$8.02	$7.22

Component Cabinet





Drawer (319601) Divider (319611)

- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H

319601: 5.5"L x 2.7"W x 1.5"H **319611**: 2.5"W x 1.2"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

JAMECO EXCLUSIVE

✳ Prepackaged: please order in increments of 10

Part No.	Description	1	10	50
319600	Component cabinet	$15.95	$13.95	$12.49
319601	Drawer for cabinet⊕	.39	.332	249
319611	Divider for cabinet ✳	.19	.17	

Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers

100256: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)

148902: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)



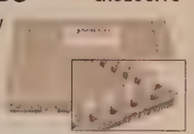
✪ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
100255	18 compartments⊕✪	$2.25	$1.91	$1.43
148902	12 compartments	3.99	3.59	3.19

Plastic Fliptop Case for SMDs

JAMECO EXCLUSIVE

- 128 compartments • Color: gray
- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 67
- Size: 11.0"L x 8.3"W x 1.7"Thick



Includes: Labels for each bin

Part No.	Description	1	10
164267	SMD fliptop case	$49.95	$44.99

More Storage & Boxes available at www.Jameco.com

Over 99% of Our Catalog Products Are In Stock

Place your order by 6PM EST for same business-day shipment.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Chemicals are available online at www.Jameco.com/ElectronicDesign

TECHSPRAY Workshop Chemicals

- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs



263530 139934 118033 263572 481764 263716

Envi•Ro•Tech™ Duster

Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

Part No.	Description	Wt. (lbs.)	1	12
139900	10 oz. aerosol w/ trigger℞ *	0.8	$8.99	$8.37
263530	15 oz. aerosol w/ trigger℞ *	0.8	12.99	12.35

Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62°F.

Part No.	Description	Wt. (lbs.)	1	12
139934	10 oz. aerosol can℞ *	0.8	$12.95	$11.58

ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most no-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041	10 oz. flux remover℞ *	0.8	$10.85	$10.50

ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections
- Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033	10 oz. contact cleaner℞ *	0.9	$9.99	$8.94

Isopropyl Alcohol

99.8%+ pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572	1 pint bottle℞ *	1.1	$9.99	$8.99

No-Clean Flux Dispensing Pen

The resin and halide-free no-clean flux will leave no residues. It provides optimum wetting over a wide range of surfaces and will not damage commonly used plastics.

Part No.	Description	Wt. (lbs.)	1	5
481764	11.5 ml pen*	0.1	$5.69	$5.55

Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.

- Repairs traces
- Makes smooth jumpers
- Links components
- Shields components

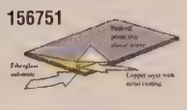
Part No.	Description	Wt. (lbs.)	1	12
263716	4.89 ml pen℞ *	0.1	$17.19	$16.38

*Shipped via UPS ground to continental U.S. only

DATAK Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T

156751



Includes: Instructions

Part No.	Description	1	10	25
156751	Single sided	$5.19	$4.72	$4.15
156734	4 oz. pos. developer*	6.95	5.95	4.95

DATAK Dry Concentrated Etchant



- Makes one pint of etch solution

Part No.	Product No.	1	10	25
70201	ER3*	$4.55	$3.94	$3.59

*Shipped via UPS ground to continental U.S. only

Plastic Pump Bottle



- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover

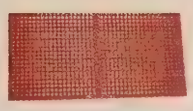
Part No.	Description	1	10	50
158131	Pump bottle ℞	$10.95	$9.95	$8.95



Prototype Boards & Accessories

GC Prototype Boards

Experimenter's Phenolic Prototype Board



Excellent for use in prototype building, experimenting, hobby or science projects and kit building. 0.03" punched holes on 0.150" centers.

Part No.	Product No.	Description	Size	1	10	50
616673	22-512	Single land patt.	6.75"L x 3.38"W x 1/16"Th	$5.29	$4.76	$4.28

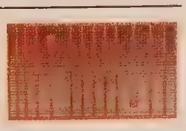
Plug-In IC Phenolic Prototype Board



IC's plug directly into board. It's 0.1" spacing accepts 14-pin to 20-pin IC's. Silver plated lands with 24-way card edge connector plug on one end. 0.035" diameter holes.

Part No.	Product No.	Size	1	10	50
616614	22-500	2.7"W x 4.0"L x 1/16"Th	$3.09	$2.92	$2.77

Versa Strip Phenolic Prototype Board



- Alpha-numeric indexing
- Silver-plated land patterns
- Predetermined short tracks for multi-IC work
- 0.035" diameter holes
- 0.1" centers

Part No.	Product No.	Size	1	10	50
616622	22-502	3.5"W x 6"L x 1/16"Th	$7.99	$6.49	$6.06

Perforated Bare Phenolic Prototype Board



Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

- 0.093" dia. holes, 0.265" spacing

Part No.	Product No.	Size	1	10	50
616690	22-516	6.0"L x 4.5"W x 1/16"Th	$5.85	$5.45	$4.81

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

VECTOR Wire Wrap and Push-In Terminals

For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.

34147: Push-In Micro-Klip Terminals

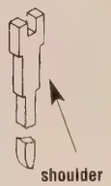
- Overall length: .36"
- Post size: .032" x .045"

34155: Miniwrap Wiring Terminals

- Shoulder: .045"
- Two-prong with square tail for wire wrapping
- Overall length: .69"
- Post size: .025"Sq.



34147



34155

Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	100 pc. units 1	100 pc. units 10
34147	T421	.200	.097	$10.99	$9.66
34155	T44	.065	.530	11.45	9.80

JAMECO ValuePro Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Single and double-sided boards are copper plated.

- 1.6mm thick



Fig. 1



Fig. 2 Fig. 3

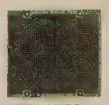
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50
Single-Sided							
169279	PCBS3X6⊕	3.0 x 6.0	3	0.1	$3.49	$3.14	$2.36
169288	PCBS6X6℞	6.0 x 6.0	2	0.2	4.95	4.46	3.56
169296	PCBS12X12℞	12.0 x 12.0	1	0.5	13.49	12.14	10.93
Double-Sided							
169309	PCBD3X6℞	3.0 x 6.0	3	0.1	$5.25	$4.46	$3.35
169317	PCBD6X6℞	6.0 x 6.0	2	0.2	7.95	7.16	5.72
169325	PCBD12X12℞	12.0 x 12.0	1	0.7	18.95	17.02	15.32

℞ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional PC Boards are available online at www.Jameco.com/ElectronicDesign

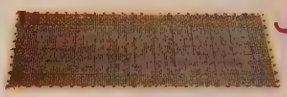
General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.


206578


21435


52943


21478

JAMECO EXCLUSIVE

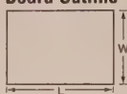
Quantity Save

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided


106551

See PCB enclosures on pg 196, and mounting hardware (recommend P/N 106551) below

Board Outline



Circuit Patterns


A Holes Only


B Pad Per Hole


C Power/Ground Perimeter Bus with Pad Per Hole


D 3 Hole Solder Pad and Bus

Part No.	Cross Ref. Number	Size (W" x L")	Fits Enclosure(s) (see page 196)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing 1	10	50	100
105100	2855PCB ♻	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	$5.25	$4.73	$4.25	$3.83
105101	5002PCB ⊕	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.26	5.59	4.95
263186	PCB-403 ♻	1.80 x 3.10	18922	B	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105129	2853PCB ♻	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	7.16	5.72	4.30
105111	2300PCB ♻	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	7.15	5.72	4.29
263206	PCB-463 ⊕ ✪	2.40 x 4.10	N/A	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
263215	PCB-858 ♻	2.50 x 4.50	18914	D	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.06	6.45	4.84
105153	2851PCB ♻	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263223	PCB-69 ♻	3.30 x 3.70	N/A	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.06	6.45	4.84
105136	2320PCB ⊕ ✪	3.30 x 4.50	11885	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105161	2852PCB ⊕ ✪	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206587	2746APCB ♻	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21435	JE401(8001) ♻	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	21.95	19.76	17.78	16.00
21451	JE405(8003) ⊕ ✪	4.50 x 6.50	18869	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	16.15	13.45
206578	2743APCB ⊕	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105180	2505PCB ♻	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.45	10.76	8.07
21478	JE407(8006) ♻	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	29.66	22.25
206594	2747APCB ⊕	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	10.79	8.09
105187	2507PCB ⊕	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.96	21.56	16.17
263232	PCB-7038 ♻	8.30 x 11.9	N/A	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	50.36	40.29	30.22
263249	PCB-6088 ⊕	9.20 x 13.0	N/A	B	Plated through	11,000 x .042"	10	None	13 x .115"	.50	55.95	52.19	49.59	47.00
Great Prices on Special Buys*														
28177	PCB1 ⊕	2.42 x 4.10	18914	C	Plated through	674 x .040"	None	None	4 x .120"	.04	$5.95	$5.36	$4.29	$3.22
28194	PCB3 ♻	5.00 x 8.00	18877	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	24.65	22.16	19.94	18.19
Vector Products														
43140	64P44XXXP	4.50 x 6.50#	18869	A	Drilled only	2860 x .042"	None	None	None	.09	$7.75	$7.05	$6.99	$6.91
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	11.19	11.05	10.95	10.85
37604	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	21.35	20.28	19.27	18.31
37612	169P44XXXP	4.50 x 17.0#	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	15.65	14.99	14.40	13.92
37621	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14,448 x .042"	None	None	None	.53	28.99	27.56	26.73	25.93
106551	20 pieces PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										2.85	2.61	2.30	2.14

PCB material: phenolic † All 0.042" diameter hole boards use terminals T44 and T421 (pg 197), T49 (see web) ✪ Blue Part No. = Limited Quantity Available *Manufacturer may vary

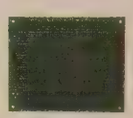
PT Series Prototyping Boards

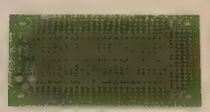
Accommodates any mixture of 0.3" to 0.6" wide IC's with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101179 & 101187, pg 117)

Part No.	Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	5	10
645677	PT-35X25	3.5"L x 2.5"W	Double-sided	456 x .036"	4 x .140"	$17.75	$16.85	$16.45
262511	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	24.75	22.95	21.79
262537	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	32.49	30.89	29.35


262511


262537


645677

Circuit Boards

GC ELECTRONICS

Bare Copper Circuit Boards

1 oz. copper on base of either fiberglass or reinforced epoxy board.

Single-Sided Boards • 1/16" Thick

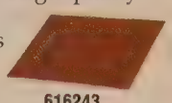
Part No.	Product No.	Size	1	10	50
616471	22-250	3" x 5"	$2.15	$1.99	$1.76
616489	22-260	4" x 6"	3.59	3.35	2.95
616497	22-261	6" x 6"	4.99	4.66	4.11
616500	22-263	6" x 9"	5.69	5.32	4.69
616518	22-264	8" x 10"	8.89	8.32	7.34
616534	22-268	11" x 14"	19.95	17.75	15.09

Assortment Single Sided Bare Boards

Part No.	Product No.	Description	1	10	50
616551	22-272	(1) 2" x 4.5", 3" x 4.5" & (2) 2.25" x 3"	$5.49	$5.13	$4.51

Positive Pre-Sensitized Circuit Boards

1 oz. copper on 1/16" epoxy glass board, UL94V-0 rated. High quality positive pre-sensitized board is double protected from light and handling damage. The peel-off coating protects the board while handling or cutting prior to exposure.


616243

Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616243	21-332	3" x 4"	$5.29	$5.00	$4.75
616251	21-334	4" x 6"	6.29	5.35	4.99
616260	21-336	6" x 6"	6.99	5.99	5.58

Double-Sided Boards

Part No.	Product No.	Size	1	10	50
616307	21-353	6" x 9"	$11.69	$11.10	$10.54

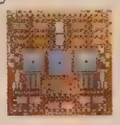
♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Additional Prototyping Boards are available online at www.Jameco.com/Proto

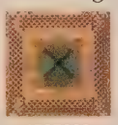
SchmartBOARD™ Prototyping Boards

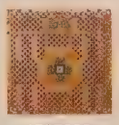
The only prototyping system that allows one to work on one circuit block at a time, test the blocks individually, and then connect the blocks together. This is why the system is called "Electronic Circuit Building Blocks."


1537580


1537723


1537635


1537660


1537686

Thru Hole Boards

✪ Blue Part No. = Limited Quantity Available

Part No.	Product No.	Description	Price
1537580	201-0001-01	0.1" center spacing w/ 0.5" offset, 12 ground holes	$5.49

Discrete Surface Mount Boards

1537715	202-0034-01✪	0201/0603/0805/1206/1210/1608/1812/ 2010/2512 discrete SMT in case size A/B/C	$10.99
1537723	202-0035-01	SOT23-3/5/6/SC70-5/6/DPAK/D2PAK/SOT223/TO263-7/ SOT89/0805/1206 discrete in case size A/B/C/D/E	10.99

SO/SOP Boards

1537635	202-004-01	4-56-pin SOIC w/ 0.05" pitch, 0603 and thru hole components, 12 ground holes	$10.99
1537643	202-0007-01	Up to 72-pin SO/SOP/QSOP/SSOP/TSSOP/PSSOP w/ 0.5mm pitch, 0603 & 0805 discrete, 6 ground holes	10.99

CHIPSCALE (QFN) Boards

1537678	202-0016-01	Supports 12-24 pins w/ 0.5mm & 0.65mm pitch	$10.99
1537686	202-0017-01	Supports 10 & 32 pin w/ 0.5mm pitch	10.99
1537694	202-0018-01	Supports 8 & 48 pin w/ 0.5mm pitch	10.99
1537707	202-0020-01	Supports 64 pin w/ 0.5mm pitch	10.99

QFP Boards

1537651	202-0009-02	Up to 64 pins QFP, TQFP, PQFP w/ 0.8mm pitch & 0603 discrete, 22 ground holes	$10.99
1537660	202-0011-01	32-100 pins QFP, TQFP, PQFP w/ 0.5mm pitch & 0603 discrete, 6 ground holes	10.99

Thru Hole I/O and Power Board

1537598	201-0100-01✪	Power & ground strip	$2.75
1537601	201-0104-01	DB-25 connector	2.75
1537619	201-0105-01	JTAG 20-pin w/ 0.1" spacing & IEEE 1394	2.75
1537627	201-0106-01	RGB HD-DB15, 4 ground holes	2.75
1537803	201-0101-01	Drive power conn. & power jack, 12 ground holes	2.75
1537811	201-0102-01	ATX power connector, 10 ground holes	2.75
1537820	201-0108-01	RJ11 or RJ45 & one USB-B conn., 8 ground holes	2.75

Accessories

1537740	920-0005-01	10 pcs. 22AWG 3" jumper wires & 20-pin headers	$5.49
1537758	920-0006-01	10 pcs. 22AWG 5" jumper wires & 20-pin headers	5.49
1537766	920-0007-01	10 pcs. 22AWG 7" jumper wires & 20-pin headers	5.49
1537774	920-0008-01	100 pcs. 22AWG 3" jumper wires	41.89
1537782	920-0009-01✪	100 pcs. 22AWG 5" jumper wires	41.89
1537791	920-0010-01	100 pcs. 22AWG 7" jumper wires	41.89

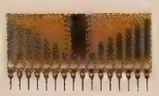
SCHMART MODULE Operates on a single 5V power source, ESD protected in excess of 15KV on all I/O lines, 4 LED's (2TRX & 2RCX), pre-installed headers for transceiver lines, +5V, & ground.

Part No.	Product No.	Price
1537731	710-0001-01	$16.55

CAPITAL ADVANCED TECHNOLOGIES INC. Surfboards®

Mini Breadboards for Surface Mount Devices.


207360


207394


207597

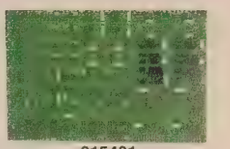
Part No.	Product No.	1	10
207360	9081 (For 8-pin SOIC)	$1.35	$1.22
207378	9082 (For 8-pin SOIC)	3.95	3.77
207394	9163 (For 14/16-pin SOIC; 0.1"pin spacing; 0.65"H)	5.45	4.79

Application Specific Adapters

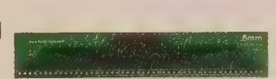
Part No.	Product No.	Accepted Devices	Pins	1	10
207597	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	$1.95	$1.69

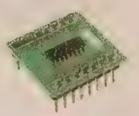
Bellin Dynamic Systems, Inc. Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.


215491

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible w/ .100" single or dual row male headers (see pg 96)
- Size: 7.6"L x 5.0"W
- Board thickness: 0.031"
- See our website (www.Jameco.com) for additional specifications


Portion of 681133


Application example using 215503

Small SMT

Part No.	Prod. No.	Board Description	1	10
215491	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	$45.95	$41.35
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

SOIC

215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	$45.95	$41.95
227310	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18. 20 to DIP .300"	45.95	34.46
227352	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18. 20 to DIP .300"	45.95	34.46
227361	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	34.46

Fine Pitch Dual Row

215503	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more	$45.95	$41.35
227281	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	62.49	56.25
681141	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28	45.95	34.46

Quad

215511	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	$45.95	$41.35
336479	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
681150	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 4/8/12/16/24/28/32 pins	45.95	41.45

PitchStick™

681133	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches	$45.95	$34.46

Kits

Part No.	Prod. No.	Description	Price
681168	KIT-100	1 each of B500, B502, B503, B504, B505, B507	$169.95
681184	KIT-202	1 each of B504, B508, B510, B513, B514, B516, B517, B535, B536, B537 & 2 of B500	349.95
681205	KIT-302	1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500	529.95



When to Mix Apples & Oranges

Clearly we know that DIP sockets were devised for DIP semiconductors and SMT semis mount straight onto the PCB. We also know that prototyping SMT devices is much more difficult than DIP because of the package.

So how do you make prototyping SMT-only products much faster and easier? Just use a DIP socket! No, I'm not writing crazy talk... check out the Bellin Dynamic Systems SMT proto boards, above. Simply solder your devices to these carrier boards once. The DIP pins on the underside plug into your DIP sockets, so you can plug and exchange them like lego building blocks and then reuse them in future prototyping endeavors.

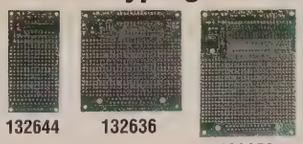
Practical Practices
Money Saving Tips for the Engineer

Electro Design

Additional Prototyping Boards are available online at www.Jameco.com/Proto

microEngineering Labs "PICProto" Prototyping Boards

- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area • Silkscreen legend
- Solder mask on both sides makes soldering easy



Includes: Documentation sheet with schematic, suggested parts and placement

PICProto 18, 18L: All 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61,620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83 and 84

Part No.	Description	Size (L" x W")	1	10
132644	PICProto 18	3.0 x 1.5	$9.95	$8.95

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242 and 252

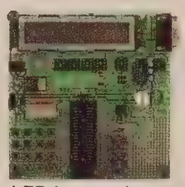
Part No.	Description	Size (L" x W")	1	10
132636	PICProto 3	3.0 x 3.0	$13.89	$12.52

PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422 and 452

Part No.	Description	Size (L" x W")	1	10
132652	PICProto 64	4.0 x 3.0	$16.95	$12.72

microEngineering Labs Experimenter's Module Board

Provides an assembled test bed containing most of the circuitry commonly used with PICmicro microcontrollers. Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer and RC servo controller.



- 40-pin ZIF socket for PICmicro MCU (not included, recommend PIC16F877-20/P (P/N 176882, pg 3)
- Reset button • 16 switch keypad • 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Size: 5.5" x 5.6" • One-year warranty
- Socket for I2C & SPI serial EEPROM, RS485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit

Requires: AC adapter (below)

Part No.	Description	1	10
169113	LAB-X1 Experimenter Board	$199.95	$189.95
176882	PIC16F877-20/P microcontroller (pg 3)	9.29	8.05
127976	AC adapter (details on pg 161)	5.99	5.66
1581222	LAB-X1 Tutorial & Resource Book	49.95	48.95

microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 3.



- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming

Requires: Two 9V batteries or AC adapter (below)

Blue Part No. = Limited Quantity

Part No.	Description	1	10
132679	EPIC Plus PICmicro programmer	$55.75	$50.18
136397	8/18/20-pin ZIF adapter	34.95	31.95
132610	40/28-pin ZIF adapter	34.95	31.95
162317	AC wall adapter (16VDC/500mA, details on pg 162)	10.49	9.18
67256	6' DB25 cable (details on pg 83)	7.75	6.95

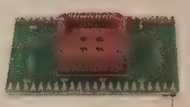
microEngineering Labs PICBasic Pro Compiler



- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I²C instructions to access external serial EEPROMs
- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
- Bit, byte, word arrays • Real if…Then…Else…End if
- Hierarchical expression handling • Built-in LCD support
- Interrupts in BASIC & assembler • BASIC Stamp I & II library
- MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx and 18Cxxx microcontrollers

Part No.	Description	1	10
150543	PICBasic Pro compiler	$249.95	$224.95

PLCC Prototype Adapter



- PCB construction • Tin-plated PLCC connector
- Gold-plated round pins
- PLCC socket slotted for PLCC chip remover
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10

Part No.	Pins	Size (L x W)	1	10	100
73541	44	2.3" x 1.6"	$11.95	$10.79	$9.69

eeTools Universal 48-Pin USB Programmer



- Supports 7,000+ devices including the latest NAND flash memory, standard flash memory, EPROM, EEPROM, serial PROM & microcontrollers
- Device programming speed: 1.5M-bit per second
- Low voltage supports 5, 3.3, 3, 2.7, 2.5, 1.8V programming voltages
- Blank check/program/verify 4M-bit flash memories in 85 sec.
- Supports ASCII, Intel HEX, Motorola S, Tektronix HEX, JEDEC & HOF file formats
- User-friendly menu driven iram, verify, blank check, erase, gang programming mode, edit & set programming options via host PC
- Independent start key in each socket • Weight: 3.5 lbs.
- Input voltage: 100-240VAC @ 50-60Hz • Size: 10.6"W x 3.8"D x 2.5"H

Includes: USB cable, CD-ROM software and manual

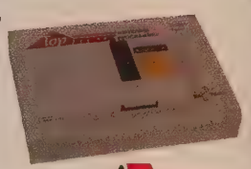
System requirements: 386/486/Pentium® or compatible, USB 1.1 or 2.0, 4MB hard disk space, 16MB RAM, Windows® 95/98/ME/2000/NT/XP operating system

Part No.	Product No	1	5
694891	PROMAX-4G	$2,401.05	$2,280.95
694882	TM-8G-DP (8-gang adapter)	336.45	319.58

High-Speed Universal Device Programmer/Tester

Parallel Port Interface

eeTools



- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & MCU
- 8000+ device types supported
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Supports POF and JEDEC formats
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- High-speed device function tests and user creatable test library
- Protects hardware circuits from improperly inserted or defective chips
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors • CE/CUL/CSA quality certified

MADE IN USA

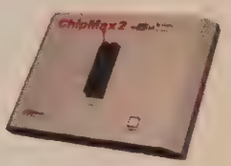
Includes: Parallel cable, installation diskette, power cord and manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765	TOPMAX	48-pin universal ZIF	$875.95	$681.86

eeTools 13,000+ Device USB Only Programmer

USB Interface



- Universal device (13000+) support includes the latest NAND Flash Memory, standard Flash Memory, EPROM, EEPROM, serial PROM, GAL, FPGA, and MCU
- On-board FPGAs for extremely fast communication
- Supports real low-voltage support: 5, 3.3, 2.7, and 1.8 volt for programming power
- Detects all pin locations for poor or damaged pin contacts
- External "Start" key allows customer to execute the optional auto program parameters without PC command
- Current limiting protects hardware circuit from improperly inserted or defective chips and operation errors • External switching power supply, 110-240VAC
- Support a high-speed USB2.0 port for PC interface
- Support a standard IEEE-1149.1 (JTAG) port

MADE IN USA

Includes: USB cable, wall adapter, program CD and manual

System Requirements: IBM PC 386,486, Pentium® or compatibles with USB port, Windows® 98/Me/2000/NT/XP, hard drive, 512K RAM

Part No.	Description	Socket	1	5
694866	CHIPMAX 2	48-pin ZIF	$583.15	$553.95

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Additional IC Programmers are available online at www.Jameco.com/ElectronicDesign

Flash Writer/Programmer with USB Interface

- Supports Flash EPROM, EPROM & EEPROM
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Only 22 sec. to blank check, program & verify MXIC MX29F040
- Programs 8-bit Flash serial via USB cable on Windows® 9x/2000/XP



Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947	Leaper 3D	$199.95	$179.95

42,000+ Device 48-Pin USB/Stand-Alone Programmer

- Fastest low-cost programmer in the market; programs high-density Flash memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)
- Supports: EPROM, Paged EPROM, EEPROM, FPGA Configuration Serial PROM, Flash Memory (NOR and NAND), BPROM, NOVRAM, SPLD, CPLD, EPLD, Firmware HUB, MCU, standard logic
- Reliable programming of low voltage devices down to 1.5 volts
- Microsoft® Windows® 9x/NT/2000/XP compatible
- Overcurrent/overvoltage protection for safety of the chip & programmer hardware
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.



XELTEK

Includes: 12VDC @ 2.5A AC adapter, program CD, USB cable and manual

Part No.	Description	1	5
231221	SuperPro-3000U USB universal programmer	$989.95	$940.45

XELTEK 21,000+/31,000+ Device 48-Pin USB Programmers

- High speed programming, 32Mb flash in 13.5 sec. (program + verify)
- Supports EPROM, paged EPROM, parallel & serial EEPROM, FPGA configuration serial PROM, FLASH memory (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, microcontroller, MCU, standard logic, ISP
- Advanced hardware features minimized bounce noise
- Over current and over voltage for programmer hardware
- Software supports Windows® 98/ME/NT/2000/XP
- Pin continuity & wrong chip insertion check prevents chip from accidental damage

692457

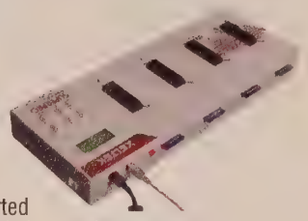


Includes: Power adapter, manual, program CD and USB cable

Part No.	Description	Price
692457	SUPERPRO 280U, supports 21,000+ devices from 132+ IC manufacturers	$583.15
692449	SUPERPRO 580U, supports 31,000+ devices from 146+ IC manufacturers	737.55

XELTEK 37,000+ Device/48-Pin USB Stand-Alone Gang Programmer

- 4 high speed 48-pin DIP programming sockets with four 128MB flash cards
- Supports 37,000+ devices, and growing
- Operates in both PC and stand-alone mode for volume production
- Programs latest low voltage devices
- Asynchronous fast programming, each module is independent from one another
- ISP (in-system programmable) devices supported
- Programming starts automatically when a chip is inserted
- Supports EPROM, EEPROM, serial EPROM, paged EPROM, serial PROM, flash EPROM (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, MCU, microcontroller, SRAM, and standard logic devices with voltages down to 1.5V
- Stand-alone interface: 16 characters x 4 lines backlit LCD, 6 standard hard-keys, 4 compact flash cards (removable which can support up to 256MB)
- Operating volt.: AC input of 90-250V @ 50/60 Hz, or 24V @ 5A power adapter
- Size: 21.3"L x 7.7"W x 2.3"H



Includes: 4 128MB CF cards, AC adapter, CD-ROM, USB cable and manual

Part No.	Description	Price
692490	SUPERPRO 9000U programmer	$3,599.99

XELTEK 3400+ Device, 40-Pin Programmer

- Supports 3400+ devices, including most E(E)PROM, Series E(E)PROM & Flash
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronix (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 9x/NT/2000/XP • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.



Includes: Power adapter, parallel cable, manual and CD-ROM software

Part No.	Description	1	5
231183	SuperPro-Z universal programmer	$249.85	$237.34

Project Boards & Breadboard Accessories

Powered Project Boards

- Solderless breadboard with 2420 tie points
- Power switch with light
- Outputs are short circuit protected
- Weight: 6.8 lbs.

Includes: Power cord

136259: fixed power: +5V @ 1A; variable power: 0 to ±15VDC @ 500mA



136259

- Back panel has ground terminal
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907, pg 77
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H
- One-year warranty

1537264: fixed power: +5V @ 1A; variable power: 0 to ±16VDC @ 300mA • Fuse protection

- Front panel has color coded terminals for DC output power supply, adjustable knobs & ground terminal
- Input voltage: 110/220VAC @ 50-60Hz switchable
- Breadboard size: 5.8"W x 6.5"L
- Enclosure size: 10.0"L x 7.8"W x 2.4"D

Part No.	Description	1	10	25
136259	Powered brd	$124.95	$109.95	$103.89
1537264	Powered breadboard	84.05	75.00	64.00

EXTECH Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.



211668

211668:

- 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments



211676

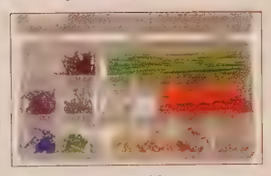
211676:

- 5 decade ranges of capacitance
- 5% capacitance substitution from 100pF to 11,111µF

Part No.	Description	1	10
211668	Resistance	$99.95	$94.89
211676	Capacitance	130.25	123.68

Wire Jumper Kit (350 pcs.)

- 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers
- Clear plastic durable case



19290

20080: 350-piece refill for 19290

Part No.	Description	1	10	50	100
19290	Wire jumper kit	$16.59	$14.97	$13.47	$12.12
20080	Refill for 19290	11.65	10.48	9.43	8.59

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



126342

Part No.	Cross Ref. No.	Length (mm/inch)	1	10	100
126360	JW50	50/1.97	$4.45	$3.79	$2.84
126342	JW100	100/3.94	5.49	4.98	4.49
126325	JW200	200/7.87	5.79	5.23	4.74

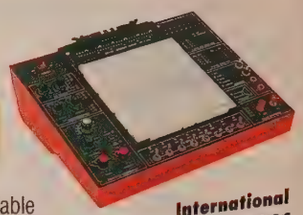
RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Digital/Analog Labs & Solderless Breadboards

Color Code Legend: New Sale Lower$ QtySave

Additional Solderless Breadboards are available online at www.Jameco.com/Proto

Digital/Analog Design Lab



International 120/220VAC Switchable

See page 209 for New Digital/Analog Labs

Solderless Breadboard
- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Input power: 120/220VAC @ 50-60Hz (switchable)

Function Generator
- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vpp variable
- Triangle wave output: 0–6 Vpp variable
- Square wave output: 0–8 Vpp variable

Other features:
- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 2 pulse switches (2 sets of outputs: Ā, A, B̄, B)
- Two 7-segment LED displays (digit height: 0.3")
- 8 data switches
- 2 banana sockets, 2 BNC jacks
- 8 red LEDs with separate input terminals
- 2.5" dia. 8Ω, 25W speaker
- One-year warranty
- Includes power cord and manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
136267	Digital/analog lab ♻	12.8 x 9.8 x 3.7	8.5	$439.95	$399.95	$335.95

Digital/Analog Design Labs

Our most popular digital lab!



75839

International 115/220VAC Switchable

- Two 7-segment displays (digit height: 0.3")
- One-year warranty

Solderless Breadboard
- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies
- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

Function Generator (5 ranges)
- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75839	1580	±5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890	2960	±5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
75839	Digital lab ♻	10.6 x 13.3 x 5.0	8.1	$290.19	$275.68	$261.90
201890	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	371.19	345.04	318.89

AC/DC Power Supply

Ideal for Breadboards below



International 120/220VAC Switchable

Output Specifications:
+5VDC @ 1A;
-5V @ 300mA fixed;
0 to +15VDC @ 500mA variable;
0 to -15VDC @ 300mA variable;
12-6-0-6-12 tapped VAC, 300mA fixed

With built-in short-proof regulated power supplies.
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 186
- Size: 7.4"W x 5.5"D x 2.6"H
- Color: beige
- Weight: 5.5 lbs.
- One-year warranty

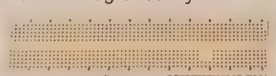
Part No.	Description	1	10	25
77682	Power supply ♻	$139.15	$127.54	$115.94

Solderless Breadboards

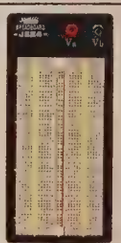
JAMECO EXCLUSIVE

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (above right).
- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

Attention Educators! Buy jumper wire (pg 201) in bulk and SAVE! (see Solid Hook-up Wire on page 81)



20670



20758



20812

WBU5 Series Key Features:
- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

JE Series Key Features:
- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 201)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)

Part No.	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing 1	10	50	100
20601	JE21 ♻	1	2	400	0	3.3 x 2.1	—	0.13	$5.49	$4.97	$4.46	$4.02
20669	JE22 ⊕ ✪	1	0	630	0	6.5 x 1.4	—	0.20	6.79	6.11	5.54	4.87
194299	JE37 ♻	1	2	640	0	6.9 x 2.4	—	0.25	11.25	10.11	8.08	6.06
20723	JE23 ♻	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.85	8.87	7.99	7.19
194271	JE34 ⊕ ✪	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	19.15	17.82	16.94	16.08
20758	JE24 ♻	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901	WBU504 ⊕ †	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.89	20.90	18.90	16.90
20774	JE25 ♻	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20791	JE26 ♻	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20812	JE27 ♻	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

Great Prices on Special Buys*

Part No.	Description	1	10	25
421315	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm) ⊕	$12.95	$11.69	$10.49

† WBU5 and JE series do not interconnect ✪ Blue Part No. = Limited Quantity Available * Manufacturer may vary

♻ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

Laser Products, BASIC Stamp Kits & Robotic Components

Additional Electronic Kits are available online at www.Jameco.com/Hobby

Laser Diode and Driver



182932: Laser Diode
- Optical output power: 5mW maximum
- Operating current: 30mA
- 5.6mm packaging size
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- Beam divergence of 11° from center line max.

Class IIIa Laser Product

161737: Laser driver w/ regulator
- Input voltage: 2.6-6VDC • Input current: 40mA

Part No.	Description	1	10	25
182932	650nm laser diode	$14.95	$13.45	$12.15
161737	Laser driver ℝ	8.39	7.32	6.59

Laser Diode Module



- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia • One-year warranty

Class IIIa Laser Product

Part No.	Description	Price
310519	Laser module, brass	$44.95

Green Laser Pointer



Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night.
- Output wavelength: 532nm • Output power: <5mW
- 90-day manufacturer's warranty

Includes: Metal gift box, clip and 2 AAA batteries

Part No.	Description	Price
223731	Green laser pointer	$99.95

Boe-Bot Full Kits



PARALLAX ℝ

Now with Robotics text v.2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot. Requires 4 AA batteries (not included).

Part No.	Product No.	1	10
387997	28832 (USB)	$148.45	$147.09

650nm Line and Dot Laser Diodes

143845/173243:

Class IIIa Laser Product



- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating volt.: 3-5V
- Size: 3.3"L x 0.9"Dia. • One-year warranty

143845: Line laser module
- Laser line width: 1mm • Laser fan angle: 60°

173243: Cross hair laser diode module
- Laser fan angle: 60° • Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

143837: Module regulated power supply
- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.

143853: Laser module mount
- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment



Part No.	Description	1	10
143845	Line laser diode module	$114.95	$103.95
173243	Cross hair laser diode mod ⊕	89.35	71.63
143837	Regulated power supply ⊕	19.95	17.95
143853	Laser diode module mount ⊕	51.45	38.59

Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD

sale



Part No.	Description	1	10	100
138288	.250" ID sleeve coupler	$4.49	$4.06	$3.80

Stamp Works Kit Plus

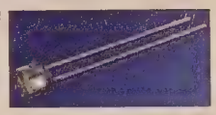


This all-in-one kit includes a well-written collection of 35 experiments that will teach you first class BASIC stamp programming.
- Weight: 10 lbs.

Includes: Stamp Works experiments and Source Code book, Basic Stamp Syntax and Reference Manual, development board (28138), 2 x 16 parallel LCD with custom cable, BS2 module, 3 rolls of 100' 22AWG wire, photoresistor, resistor and capacitor assortment, NE555CN timer, (2) 74HC165N, LM358N, DS1620, (2) 74HC595CN, 24LC32A serial EEPROM, MC14489 serial cable, USB cable, stepper motor, servo motor, CD-ROM software and documentation, and 12VDC @ 1A power supply.

Part No.	Product No.	Price
661116	27297 kit	$273.45

75W Laser Diode



- Nanostack pulsed laser diode
- Nanostack laser technology including multiple epitaxially stacked emitters
- Applications: range finding, security/surveillance, illumination/ ignition, test and measurement systems
- Peak power: 75W • Laser aperture: 200µm x 10µm
- Number of emitters: 3 • Wavelength: 905nm

Part No.	Cross Ref. No.	1	10	100
1623584	SPL PL90-3 ♠	$37.55	$35.01	$32.82

♠ This product typically requires one additional day to ship. Please request '***ship partial***' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

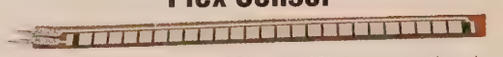
High-Efficiency Robotic Servo



Excellent power-to-weight ratio for robotic projects.
- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- 0.8"W x 1.4"D x 1.6"H
- Can be operated by P/N 151001, see web

Part No.	Description	1	10
157067	Robotic servo	$21.95	$19.95

Flex Sensor



- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Nominal resistance: 10Ω
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10
150551	Flex sensor	$12.95	$11.65

Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	10	50
162288	.125" (3.18 mm) ID hub	$1.49	$1.28	$.96
161998	.197" (5.00 mm) ID hub	1.19	1.02	.77
162270	.250" (6.35 mm) ID hub	1.49	1.31	1.20
162000	Rubber spider	1.55	1.38	1.26

16-Pitch Sprocket Set



- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length • Chain tension load: 2.0 lbs.
- 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with ⅛" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with ¼" bore size

Part No.	Description	1	10	25
168276	Sprocket set – 14 pcs	$31.55	$28.39	$25.55

10-Piece Gear Assortment



- T10, T20, T30, T40, T50 and bushing
- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter

Part No.	Description	1	10	100
1810072	Gear set – 10 pieces	$4.95	$4.45	$3.95

MONDO-TRONICS Flexinol Muscle Wires®



These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

How it works... *Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.*

- Length: 1 meter **Includes:** Crimps and instructions

Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing 1	Pricing 10
141321	100LT	100	150	180	28	150	33	$17.95	$15.95
141874	150LT	150	50	400	62	330	20	16.95	15.29
160055	375LT	375	8	2750	393	2000	4	22.95	19.95

* *Multiply by 0.0098 to get force in Newtons* ** *Cycles per minute, in still air, at 20° Centigrade*

ℝ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 204.*

Ordering Information

PAYMENT OPTIONS

Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

C.O.D.

Personal checks are accepted. Please add $9.00 per C.O.D. order. Include the name and address of your bank and your account number.

International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.
E-mail: international@Jameco.com.

SERVICES

30-Day Money Back Guarantee

If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error may be subject to a restock fee. Call our customer service department at 1-800-536-4316 or visit www.Jameco.com to request an RMA#. It should appear clearly on the outside of the box. Returns without an RMA# will not be accepted, and no freight collect packages will be accepted. A completed Jameco customer service form, located on the back of the packing slip, must be included with your return. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

No Other Warranties

The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to, implied conditions or warranties of merchantability, fitness for a particular purpose, and non-infringement of the products.

Limitation of Liability

Jameco shall not be liable for any incidental, special or consequential damages for breach of any warranty, expressed or implied, directly or indirectly arising out of Jameco's sale of merchandise, including any failure to deliver any merchandise, or arising out of customer's installation or use, whether proper or improper, of the product, separately or in combination with other equipment, or from any other cause. Products sold by Jameco are not authorized for use as critical components in life support devices or systems.

5 EASY WAYS TO ORDER

Telephone: Toll-Free 24 hours a day!
1-800-831-4242
International orders, call 1-650-592-8097

24-hour Ordering Hotline!

Toll-Free FAX: US/Canada: 1-800-237-6948
Brazil: 000-817-455-6119
Colombia: 980-9-136748
Indonesia: 1-803-015-237-6948
Mexico: 001-800-593-1449
New Zealand: 080-044-0470
Other Countries: 1-650-592-2503

Online: http://www.Jameco.com
On-line catalog! Our complete offering of products is searchable on the Jameco website!

Mail: E-mail your order to: sales@Jameco.com or print and fill out the order form at www.Jameco.com and mail it to us.

In-Person: Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m. – 5:00 p.m. Monday – Friday.

CONTACT INFORMATION

The following services are available at 1-650-592-8097 Monday – Friday from 6:30 a.m. – 5.00 p.m. PST or via e-mail:

- International Sales (international@Jameco.com)
- Customer Service (custservice@Jameco.com)
- Credit Department (credit@Jameco.com)
- Technical Support (tech@Jameco.com)

Toll-Free Hotline!

Please call us at 1-800-831-4242.

POLICIES

Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

No Minimum Order

A $5.00 processing fee will be added to U.S. orders under $25.00. This fee will be waived on web orders. All international orders below $40.00 will incur a $7.50 processing fee.

PRICES

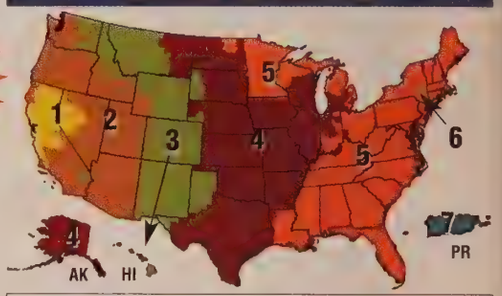
Prices are effective 01-07-08. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

RoHS COMPLIANCE

Jameco obtains all RoHS compliance status information from its suppliers solely and does not verify or confirm such status. Products are coded with the following symbols throughout the catalog:

♻ RoHS compliant product
⊕ Available in both RoHS and non-RoHS

SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)
1 day 2 days 3 days
4 days 5 days 6 days 7 days

Orders received Mon.–Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth $5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

Options and Rates*

Shipping delivery times are based on working days.

Commercial Destination	First 2 lbs.	Additional lb.
Ground	$6.59	$0.83
3-Day	$11.19	$1.99
2-Day	$15.49	$2.99
Next Day	$39.95	$4.49
Residential Destination	**First 2 lbs.**	**Additional lb.**
Ground	$7.29	$0.86
3-Day	$13.29	$1.99
2-Day	$17.59	$2.99
Next Day	$42.05	$4.49

Priority Mail (USPS)

$5.95 for 1st lb.; $1.69 for each additional lb. Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day. Sorry we are unable to ship products mailed from an alternate warehouse via U.S.P.S.

Packaging Weight

For domestic orders, exact package weight will be measured at shipment and separately billed.

* The above rates apply to single box shipments through UPS that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs. or for other carriers. Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages.

International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin.

Red indicates new products found on these pages.

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80-Watt Desoldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Heater: 32V, 80W
- Large digital temperature display
- Tip temperature accurate to ±3˚C (6˚F)
- Zero voltage switching & fully grounded design makes this unit safe on electro-sensitive devices
- Adjustable temperature w/o changing tips
- Suction controlled by a finger actuator thyristor located on the desoldering handle
- Self contained diaphragm vacuum pump engineered to provide continuous, maintenance free operation
- Temperature range: 300˚C to 450˚C (572˚F to 842˚F)
- Size: 7.9"W x 9.3"D x 4.5"H



NEW

Part No.	Product No.	Description	1	10
1919094	LF-6000	Desoldering	$349.29	$331.74

High-Powered Desoldering & Soldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Soldering iron (heater output, power & temperature range): 32VAC, 100W, 200˚C to 450˚C (400˚F to 850˚F)
- Desoldering iron (heater output, power, and temperature range): 32VAC, 80W, 300˚C to 450˚C (570˚F to 850˚F)
- Temperature stability: ±3˚C (6˚F)
- Zero voltage switching & fully grounded design
- Adjustable temperature w/o changing tips
- Pump controlled by a finger actuated thyristor on desoldering iron
- Auto power down after 15 minutes of idle
- Detachable soldering iron and desoldering wand
- Self contained vacuum pump engineered to provide continuous, maintenance free operation
- Digital readout for temperature
- Analog readout for vacuum pressure
- Size: 10.8"W x 12.5"D x 6.1"H



NEW

Includes: 104A/105A soldering stands, DIA80 desoldering iron, 210ESD soldering iron, steel brush, foam filters, power cord, diagonal wire cutters, 5 high precision tweezers and instruction manual

Part No.	Product No.	Description	1	5
1919115	LF-8000	Solder/desolder	$488.89	$464.44

See pages 190-194 for more Soldering Products

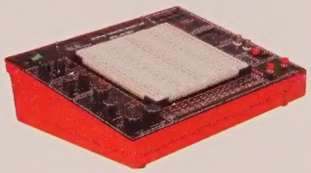
Digital/Analog Circuit Lab

Solderless Breadboard
- 2712 nickel-plated tie points, fitting all DIP sizes and components with leads and solid wires of up to 22-30AWG

DC Power Supplies
- Variable DC output: 0V to 15V @ 1A; 0V to -15V @ 1A
- Fixed DC output: 5V @ 1A; -5V @ 300mA

Function Generator
- Sine & Square wave output: 0 – 8Vpp variable
- Triangle wave output: 0 – 6Vpp variable • TTL mode output: 5Vpp
- Frequency range: 1Hz to 10Hz; 10Hz – 100Hz; 100Hz – 1kHz; 1kHz – 10kHz; 10kHz – 100kHz

Other Features:
- 16 bit data switches w/ corresponding output points
- 2 banana sockets & 2 BNC jacks
- 2 pulse switches w/ 2 sets of outputs
- 110V/220V switch selectable voltage input
- 2.5" diameter 8Ω 0.25W speaker
- 2-digit 7-segment LED display
- 16 red LED's w/ separate input terminals



NEW

Includes: Test leads, power cable, and manual

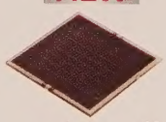
See page 202 for more Digital/Analog Labs

Part No.	Description	Size	Weight	1	10
1919211	Desoldering	13.0"L x 10.5"W x 3.5"H	9.1 lbs.	$415.99	$395.99

Solar Panel

NEW

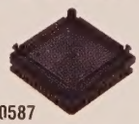
- Clear coat plastic
- Voltage output: 4.7VDC to 5VDC
- Power output: 0.25W max.
- Size: 2.36"L x 2.36"W x 0.1"thick



Part No.	Description	1	10
1928142	Solar panel	$9.95	$4.94

AMP PQFP Socket & Cover

- Housing: high temperature thermoplastic, black, 94V-0 rated
- Cover: polyphenylene sulfide (PPS) 94V-0 rated, black
- Contacts: phosphor bronze, tin



840587

Part No.	Product No.	Description	1	10
840587	821949-5	132-pos socket ..	$31.95	$26.22
840552	821942-1	132-pos cover.....	5.99	4.80

See pages 108-110 for more Sockets

AMP Mictor Connector

0.025" Centerline

- Vertical receptacle assembly
- Housing: liquid crystal polymer, black
- Voltage: 30VAC • Contacts: copper alloy
- Ground buses: phosphor bronze
- Current: signal – 1A; ground – 7.6A fully derated
- Plating: 130µ" gold, 30µ" palladium nickel in contact area, 150µ" - 250µ" tin on leads



Part No.	Product No.	Positions	1	10
853311	5767054-1	38	$19.49	$15.93

USB 2.0 High Speed Extender Cable

An active device where the USB signals going in and out of the extension cable are buffered to assure signal quality and adherence to electrical and timing specs.



See pages 83-84 for more USB Cables

- Full compliance with USB spec Ver. 2.0/1.1
- Supports 480Mbit/s high speed 12Mbit/s full speed, and 1.5Mbit/s low speed serial data communication
- One upstream port and one downstream port
- Windows® 98 & higher or Mac® OS compatible
- Supports plug & play and hot-swap functions
- USB-A male to USB-A female
- Bus power mode • Length: 16 ft.

NEW

Part No.	Product No.	Description	1	10
1919174	10U2-24116	Extender cable	$19.95	$18.95

AMP HM-Zd PCB Connectors & Cable Assembly

- Housing: glass filled polyester
- Contacts: copper-nickel-silicon, 0.76µm gold in contact area
- Plating: **859051**: tin in solder area; **741167**: bright tin-lead in solder area



741167

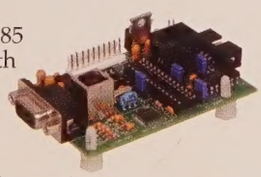
Part No.	Product No.	Positions	1	10
859051	6469001-1 ♠	40 (4 pair)	$23.35	$20.41
741167	1469001-1 ♠	40 (4 pair)	16.69	15.83

See pages 105-106 for more PCB Connectors

KAE Smart Serial Adapter

Serial Converter/Stand Alone Host Controller

The Smart Serial Adapter is a USB/RS232 to RS485 converter, which allows you to communicate with NMC control modules such as the PIC-SERVO, PIC-STEP & PIC-I/O through you host computer's USB or RS232 com port.



- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- Maybe used as a stand alone host w/ either the simple sequencer chip or a PIC 18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2

NEW

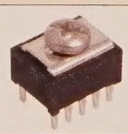
See page 3 for PIC Microcontrollers

Part No.	Product No.	Description	Price
1586120	KAE-SSA45-BDV1	Smart serial adapter	$99.95

AMP Power Tap

Standard Power Tab

- Connector body & lid: nylon 94V-0 rated
- Contact: copper alloy, bright tin-lead
- Screw: steel plated • Resistance: 2mΩ max.



NEW

See pages 115-117 for more Terminals

Part No.	Product No.	Description	1	10
852730	55556-4	6-32 screw hole	$4.65	$3.95

Avago Technologies Amplifiers

See pages 27-30 for more Amps

NEW

Part No.	Product No.	Pkg.	Description	1	10	100
1557151	MGA-53543-BLKG ♠	SOT-343	50MHz to 6GHz high linear amplifier	$3.59	$2.87	$2.61
1557185	MGA-565P8-BLK ♠	LPCC 2x2	20dBm P_{SAT} hi-isolation buffer amp	2.99	2.40	2.18
1557222	MGA-62563-BLKG ♠	SOT-363	Current adjustable low noise amp	2.05	1.91	1.79
1557329	MGA-82563-BLKG ♠	SOT-363	0.1-6GHz, 3V, 17dBm amplifier	2.15	2.00	1.87
1557396	MGA-86576-STRG ♠	76-pkg.	1.5-8GHz low noise GaAs MMIC amp	7.95	7.39	6.93

♠ This product typically requires one additional day to ship. Please request '*ship partial*' if you prefer the other products on your order ship immediately. A separate shipping charge would apply.

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 204.

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Capacitors	Filters	Resistors
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Communications	Interface	RF Connectors
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